

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	Thickness (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	HGUID	HGU Code	Lithology	Notes
35	16601	430	1410	0	25	25	0	8	1410	1385	430	422	1	VF	sand	
35	16601	430	1410	25	85	60	8	26	1385	1325	422	404	1	VF	sand and clay	
35	16601	430	1410	85	100	15	26	30	1325	1310	404	399	1	VF	clay	
35	16601	430	1410	100	110	10	30	34	1310	1300	399	396	1	VF	sand	
35	16601	430	1410	110	135	25	34	41	1300	1275	396	389	2	UBF	clay	
35	16601	430	1410	135	195	60	41	59	1275	1215	389	370	2	UBF	sand and clay	
35	16601	430	1410	195	315	120	59	96	1215	1095	370	334	2	UBF	clay	
35	16601	430	1410	315	370	55	96	113	1095	1040	334	317	2	UBF	sand	
35	16601	430	1410	370	408	38	113	124	1040	1002	317	306	2	UBF	fine sand and clay	
35	16601	430	1410	408	439	31	124	134	1002	971	306	296	2	UBF	clay	
35	16601	430	1410	439	525	86	134	160	971	885	296	270	2	UBF	sand	
35	16601	430	1410	525	760	235	160	232	885	650	270	198	2	UBF	fine sand	
35	16601	430	1410	760	910	150	232	277	650	500	198	153	2	UBF	clay streaks and sand	
35	16601	430	1410	910	1134	224	277	346	500	276	153	84	3	LBF	(as above)	MAU/LAU pick based on cross-sections BB' and DD' (Gootee and Young, 2008).
35	16601	430	1410	1134	1205	71	346	367	276	205	84	63	3	LBF	clay with streaks of sand	
35	16601	430	1410	1205	1509	304	367	460	205	-99	63	-30	3	LBF	little sand streaks and clay	
35	16601	430	1410	1509	1580	71	460	482	-99	-170	-30	-52	3	LBF	clay	
35	16601	430	1410	1580	1740	160	482	530	-170	-330	-52	-100	3	LBF	sand	
35	16601	430	1410	1740	2020	280	530	616	-330	-610	-100	-186	3	LBF	sand streaks	
35	16601	430	1410	2020	2234	214	616	681	-610	-824	-186	-251	3	LBF	sand	
35	16613	406	1330	0	10	10	0	3	1330	1320	406	402	1	VF	soil	
35	16613	406	1330	10	47	37	3	14	1320	1283	402	391	1	VF	sandy clay with some gravel	
35	16613	406	1330	47	55	8	14	17	1283	1275	391	389	1	VF	coarse sand and gravel	
35	16613	406	1330	55	410	355	17	125	1275	920	389	281	2	UBF	sandy clay with some gravel	
35	16613	406	1330	410	420	10	125	128	920	910	281	277	2	UBF	sand and gravel	
35	16613	406	1330	420	830	410	128	253	910	500	277	153	2	UBF	sandy clay with sand and gravel streaks	
35	16613	406	1330	830	1970	1140	253	600	500	-640	153	-195	3	LBF	(as above)	MAU/LAU pick based on cross-sections BB' and DD' (Gootee and Young, 2008).
35	16613	406	1330	1970	2065	95	600	629	-640	-735	-195	-224	3	LBF	sandy clay with streaks of hard sand and gravel	Reported to have drilled through increasing amounts of gypsum from 1,210 to 2,180 ft (Rauzi, 2002, p. 19)
35	16613	406	1330	2065	2090	25	629	637	-735	-760	-224	-232	3	LBF	hard clay and rock	
35	16613	406	1330	2090	2150	60	637	655	-760	-820	-232	-250	3	LBF	clay	
35	16613	406	1330	2150	2180	30	655	664	-820	-850	-250	-259	3	LBF	conglomerate	
35	16917	373	1223	0	15	15	0	5	1223	1208	373	368	1	VF	topsoil	
35	16917	373	1223	15	40	25	5	12	1208	1183	368	361	1	VF	sand and gravel	
35	16917	373	1223	40	100	60	12	30	1183	1123	361	342	1	VF	sandy clay and gravel	
35	16917	373	1223	100	140	40	30	43	1123	1083	342	330	1	VF	sand and gravel	
35	16917	373	1223	140	240	100	43	73	1083	983	330	300	1	VF	silty sand	
35	16917	373	1223	240	360	120	73	110	983	863	300	263	1	VF	sand and gravel	
35	16917	373	1223	360	420	60	110	128	863	803	263	245	1	VF	sand and gravel	
35	16917	373	1223	420	440	20	128	134	803	783	245	239	2	UBF	clayey to sandy silt	
35	16917	373	1223	440	520	80	134	158	783	703	239	214	2	UBF	silty sand and gravel	
35	16917	373	1223	520	600	80	158	183	703	623	214	190	2	UBF	sand and gravel	

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35	16917	373	1223	600	860	260	183	262	623	363	190	111	2	UBF	silty sand	
35	16917	373	1223	860	990	130	262	302	363	233	111	71	2	UBF	silty sand and silty clay	
35	16917	373	1223	990	1160	170	302	354	233	63	71	19	2	UBF	silty sand	
35	16917	373	1223	1160	1600	440	354	488	63	-377	19	-115	3	LBF	clayey to sandy silt	
35	16917	373	1223	1600	2000	400	488	610	-377	-777	-115	-237	3	LBF	conglomerate	
35	16918	372	1221	0	10	10	0	3	1221	1211	372	369	1	VF	sandy clay	
35	16918	372	1221	10	20	10	3	6	1211	1201	369	366	1	VF	sand	
35	16918	372	1221	20	30	10	6	9	1201	1191	366	363	1	VF	sand with some clay	
35	16918	372	1221	30	60	30	9	18	1191	1161	363	354	1	VF	sand and rocks	
35	16918	372	1221	60	415	355	18	126	1161	806	354	246	1	VF	sand and gravel with clay streaks	
35	16918	372	1221	415	480	65	126	146	806	741	246	226	2	UBF	clay with some clay streaks	
35	16918	372	1221	480	515	35	146	157	741	706	226	215	2	UBF	clay with some sand and gravel	
35	16918	372	1221	515	555	40	157	169	706	666	215	203	2	UBF	sand with some clay	
35	16918	372	1221	555	570	15	169	174	666	651	203	198	2	UBF	sand, gravel and clay	
35	16918	372	1221	570	625	55	174	191	651	596	198	182	2	UBF	sand and clay with gravel streaks	
35	16918	372	1221	625	640	15	191	195	596	581	182	177	3	LBF	blue clay	
35	16918	372	1221	640	670	30	195	204	581	551	177	168	3	LBF	sand and clay	
35	16918	372	1221	670	700	30	204	213	551	521	168	159	3	LBF	clay with some sand	
35	16918	372	1221	700	1040	340	213	317	521	181	159	55	3	LBF	clay	
35	16918	372	1221	1040	1060	20	317	323	181	161	55	49	3	LBF	sand	
35	16918	372	1221	1060	1570	510	323	479	161	-349	49	-106	3	LBF	clay with sand streaks	
35	16918	372	1221	1570	1635	65	479	498	-349	-414	-106	-126	3	LBF	sand and gravel	
35	16918	372	1221	1635	1656	21	498	505	-414	-435	-126	-133	3	LBF	rock	
35	16918	372	1221	1656	1700	44	505	518	-435	-479	-133	-146	3	LBF	conglomerate	
35	16918	372	1221	1700	1747	47	518	532	-479	-526	-146	-160	3	LBF	hard clay with sand streaks	
35	16918	372	1221	1747	1872	125	532	571	-526	-651	-160	-198	3	LBF	conglomerate	
35	16995	399	1310	0	215	215	0	66	1310	1095	399	334	1	VF	sand and boulders some clay	
35	16995	399	1310	215	300	85	66	91	1095	1010	334	308	2	UBF	sand and clay	
35	16995	399	1310	300	500	200	91	152	1010	810	308	247	2	UBF	sand	
35	16995	399	1310	500	650	150	152	198	810	660	247	201	2	UBF	sand and gravel	
35	16995	399	1310	650	815	165	198	248	660	495	201	151	2	UBF	sand, clay and bentonite	
35	16995	399	1310	815	1000	185	248	305	495	310	151	95	2	UBF	sand and clay	
35	16995	399	1310	1000	1300	300	305	396	310	10	95	3	2	UBF	clay and gravel	
35	16995	399	1310	1300	1600	300	396	488	10	-290	3	-88	2	UBF	fine sand and clay	
35	16995	399	1310	1600	1800	200	488	549	-290	-490	-88	-149	3	LBF	coarse sand and clay	
35	16995	399	1310	1800	2200	400	549	671	-490	-890	-149	-271	3	LBF	coarse sand	
35	16995	399	1310	2200	2226	26	671	678	-890	-916	-271	-279	3	LBF	bentonite and sand	
35	16995	399	1310	2226	2300	74	678	701	-916	-990	-279	-302	3	LBF	hard rock and sand	2235-2500 possible halite and salt noted on gamma-ray logs. 52,000 ppm chloride noted in mud log
35	16995	399	1310	2300	2730	430	701	832	-990	-1420	-302	-433	3	LBF	salt, gypsum, clay, sand and gravel	
35	17042	383	1258	0	485	485	0	148	1258	773	383	235	2	UBF	sand, gravel and clay	
35	17042	383	1258	485	1515	1030	148	462	773	-257	235	-78	2	UBF	red sandy clay and gravel	
35	17042	383	1258	1515	1885	370	462	575	-257	-627	-78	-191	3	LBF	sandy clay, some gravel	
35	17062	400	1311	0	48	48	0	15	1311	1263	400	385	2	UBF	topsoil and sand	
35	17062	400	1311	48	500	452	15	152	1263	811	385	247	2	UBF	sand and gravel	

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35	17062	400	1311	500	700	200	152	213	811	611	247	186	2	UBF	clay and gravel	
35	17062	400	1311	700	1050	350	213	320	611	261	186	80	2	UBF	clay and sand	
35	17062	400	1311	1050	1500	450	320	457	261	-189	80	-58	2	UBF	sand	
35	17062	400	1311	1500	2070	570	457	631	-189	-759	-58	-231	3	LBF	sand and clay	
35	17104	388	1274	0	50	50	0	15	1274	1224	388	373	1	VF	top soil and caliche	
35	17104	388	1274	50	125	75	15	38	1224	1149	373	350	2	UBF	clay	
35	17104	388	1274	125	130	5	38	40	1149	1144	350	349	2	UBF	sand	
35	17104	388	1274	130	280	150	40	85	1144	994	349	303	2	UBF	clay (sand streaks)	
35	17104	388	1274	280	400	120	85	122	994	874	303	266	2	UBF	sandy clay	
35	17104	388	1274	400	410	10	122	125	874	864	266	263	2	UBF	sand and gravel	
35	17104	388	1274	410	520	110	125	158	864	754	263	230	2	UBF	sticky clay	
35	17104	388	1274	520	540	20	158	165	754	734	230	224	2	UBF	sandy clay	
35	17104	388	1274	540	670	130	165	204	734	604	224	184	2	UBF	sticky clay	
35	17104	388	1274	670	900	230	204	274	604	374	184	114	2	UBF	gravelly clay (sand and gravel streaks)	
35	17104	388	1274	900	1170	270	274	357	374	104	114	32	2	UBF	clay	
35	17104	388	1274	1170	1200	30	357	366	104	74	32	22	3	LBF	sand and gravel	
35	17104	388	1274	1200	1810	610	366	552	74	-536	22	-163	3	LBF	clay with sand streaks	
35	17142	429	1408	0	20	20	0	6	1408	1388	429	423	1	VF	surface sand	
35	17142	429	1408	20	100	80	6	30	1388	1308	423	399	1	VF	gravel	
35	17142	429	1408	100	160	60	30	49	1308	1248	399	381	1	VF	sand with gravel streaks	
35	17142	429	1408	160	280	120	49	85	1248	1128	381	344	1	VF	gravel	
35	17142	429	1408	280	560	280	85	171	1128	848	344	259	1	VF	gravel with thin clay streaks	
35	17142	429	1408	560	780	220	171	238	848	628	259	192	2	UBF	clay with sand and gravel streaks	
35	17142	429	1408	780	900	120	238	274	628	508	192	155	3	LBF	clay	
35	17142	429	1408	900	960	60	274	293	508	448	155	137	3	LBF	clay with gravel streaks	
35	17142	429	1408	960	1040	80	293	317	448	368	137	112	3	LBF	blue shale	
35	17142	429	1408	1040	1260	220	317	384	368	148	112	45	3	LBF	clay	
35	17142	429	1408	1260	1360	100	384	415	148	48	45	15	3	LBF	clay with gravel	
35	17142	429	1408	1360	1400	40	415	427	48	8	15	3	3	LBF	clay and sand	
35	17142	429	1408	1400	2000	600	427	610	8	-592	3	-180	3	LBF	clay	
35	17229	425	1394	0	14	14	0	4	1394	1380	425	421	2	UBF	silt	Didn't go to full depth
35	17229	425	1394	14	30	16	4	9	1380	1364	421	416	2	UBF	sandy clay	
35	17229	425	1394	30	43	13	9	13	1364	1351	416	412	2	UBF	sand & gravel	
35	17229	425	1394	43	130	87	13	40	1351	1264	412	385	2	UBF	sandy clay & gravel	
35	17229	425	1394	130	270	140	40	82	1264	1124	385	343	2	UBF	sandy clay	
35	17229	425	1394	270	1125	855	82	343	1124	269	343	82	2	UBF	caliche, clay & gravel	
35	17229	425	1394	1125	1165	40	343	355	269	229	82	70	2	UBF	granite, boulders in clay	
35	17229	425	1394	1165	1270	105	355	387	229	124	70	38	2	UBF	hard clay	
35	17229	425	1394	1270	1305	35	387	398	124	89	38	27	2	UBF	sticky clay	
35	17229	425	1394	1305	1330	25	398	405	89	64	27	20	2	UBF	sandy clay	
35	17229	425	1394	1330	1470	140	405	448	64	-76	20	-23	2	UBF	reddish sticky clay with thin strata's of clay	
35	17229	425	1394	1470	1485	15	448	453	-76	-91	-23	-28	2	UBF	red silty sand & hot water	
35	17229	425	1394	1485	1578	93	453	481	-91	-184	-28	-56	2	UBF	loose sand and gravel with thin strata's of clay	
35	17229	425	1394	1578	1625	47	481	495	-184	-231	-56	-70	2	UBF	sticky red clay	
35	17229	425	1394	1625	1635	10	495	498	-231	-241	-70	-73	2	UBF	gravelly clay	
35	17229	425	1394	1635	1660	25	498	506	-241	-266	-73	-81	3	LBF	sand & rock	

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35	17229	425	1394	1660	1685	25	506	514	-266	-291	-81	-89	3	LBF	hard rock	
35	17231	426	1396	1685	1690	5	1685	515	-289	-294	-1259	-90	3	LBF	hard rock	Starts logging at 1685 ft
35	17231	426	1396	1690	1705	15	515	520	-294	-309	-90	-94	3	LBF	conglomerate	
35	17231	426	1396	1705	1755	50	520	535	-309	-359	-94	-109	3	LBF	white fine sand	
35	17231	426	1396	1755	1775	20	535	541	-359	-379	-109	-115	3	LBF	silt, sand & clay	
35	17231	426	1396	1775	1785	10	541	544	-379	-389	-115	-118	3	LBF	sand	
35	17231	426	1396	1785	2078	293	544	633	-389	-682	-118	-208	3	LBF	hard conglomerate	
35	17305	448	1470	0	12	12	0	4	1470	1458	448	445	1	VF	top soil	
35	17305	449	1474	12	92	80	4	28	1462	1382	446	421	1	VF	clay with gravel	
35	17305	450	1477	92	470	378	28	143	1385	1007	422	307	2	UBF	silty clay, sand & a little gravel	
35	17305	451	1480	470	500	30	143	152	1010	980	308	299	2	UBF	silty clay, sand & a lot of gravel	
35	17305	452	1484	500	631	131	152	192	984	853	300	260	2	UBF	silty clay, sand & a little gravel with hard ribs	
35	17305	453	1487	631	656	25	192	200	856	831	261	253	3	LBF	conglomerate	
35	17305	454	1490	656	731	75	200	223	834	759	254	231	3	LBF	conglomerate with sandstone hard ribs & a lot of clay	
35	17305	455	1493	731	937	206	223	286	762	556	232	170	3	LBF	clay, some gravel & sandstone hard ribs	
35	17305	456	1497	937	1000	63	286	305	560	497	171	151	3	LBF	sandy clay with trace of gravel with sand stone hard ribs	
35	17305	457	1500	1000	1030	30	305	314	500	470	152	143	3	LBF	clay, some sand	
35	17305	458	1503	1030	1060	30	314	323	473	443	144	135	3	LBF	sticky clay	
35	17305	459	1507	1060	1260	200	323	384	447	247	136	75	3	LBF	clay, some sand	
35	17305	460	1510	1260	1324	64	384	404	250	186	76	57	3	LBF	sandy clay with sticky streaks	
35	17305	461	1513	1324	1335	11	404	407	189	178	58	54	3	LBF	sandy clay with decomposed granite	
35	17305	462	1516	1335	1433	98	407	437	181	83	55	25	3	LBF	sandy clay with sticky streaks	
35	17305	463	1520	1433	1481	48	437	451	87	39	26	12	3	LBF	sticky sandy clay with rock	
35	17305	464	1523	1481	1688	207	451	515	42	-165	13	-50	3	LBF	sandy clay with some sticky streaks & traces of sandstone	
35	17305	465	1526	1688	1815	127	515	553	-162	-289	-49	-88	3	LBF	sandy clay & rock	
35	17305	466	1530	1815	1890	75	553	576	-285	-360	-87	-110	3	LBF	sticky sandy clay	
35	17305	467	1533	1890	1924	34	576	586	-357	-391	-109	-119	3	LBF	sticky sandy clay with some decomposed granite	
35	17305	468	1536	1924	1950	26	586	594	-388	-414	-118	-126	3	LBF	sticky clay	
35	17305	469	1539	1950	1965	15	594	599	-411	-426	-125	-130	3	LBF	sticky, sandy clay with some decomposed granite	
35	17445	475	1558	0	6	6	0	2	1558	1552	475	473	1	VF	soil	
35	17445	475	1558	6	12	6	2	4	1552	1546	473	471	1	VF	sandy clay	
35	17445	475	1558	12	58	46	4	18	1546	1500	471	457	1	VF	gravel	
35	17445	475	1558	58	70	12	18	21	1500	1488	457	454	1	VF	gravelly clay	
35	17445	475	1558	70	100	30	21	30	1488	1458	454	445	1	VF	gravel	
35	17445	475	1558	100	155	55	30	47	1458	1403	445	428	2	UBF	clay	
35	17445	475	1558	155	325	170	47	99	1403	1233	428	376	2	UBF	sandy clay	
35	17445	475	1558	325	340	15	99	104	1233	1218	376	371	2	UBF	sand & gravel	
35	17445	475	1558	340	350	10	104	107	1218	1208	371	368	2	UBF	clay	
35	17445	475	1558	350	380	30	107	116	1208	1178	368	359	2	UBF	sand & gravel (1st water @ 375')	
35	17445	475	1558	380	390	10	116	119	1178	1168	359	356	2	UBF	clay	
35	17445	475	1558	390	400	10	119	122	1168	1158	356	353	2	UBF	sand & gravel	
35	17445	475	1558	400	405	5	122	123	1158	1153	353	352	2	UBF	clay	
35	17445	475	1558	405	425	20	123	130	1153	1133	352	345	2	UBF	sand & gravel	
35	17445	475	1558	425	435	10	130	133	1133	1123	345	342	2	UBF	clay	
35	17445	475	1558	435	440	5	133	134	1123	1118	342	341	2	UBF	sand	
35	17445	475	1558	440	450	10	134	137	1118	1108	341	338	2	UBF	clay	

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35	17445	475	1558	450	475	25	137	145	1108	1083	338	330	2	UBF	sand & gravel (2nd show of water @ 450')	
35	17445	475	1558	475	515	40	145	157	1083	1043	330	318	2	UBF	clay	
35	17445	475	1558	515	525	10	157	160	1043	1033	318	315	2	UBF	sand	
35	17445	475	1558	525	550	25	160	168	1033	1008	315	307	2	UBF	clay	
35	17445	475	1558	550	560	10	168	171	1008	998	307	304	2	UBF	sand	
35	17445	475	1558	560	565	5	171	172	998	993	304	303	2	UBF	sandy clay	
35	17445	475	1558	565	590	25	172	180	993	968	303	295	2	UBF	sand & gravel	
35	17445	475	1558	590	608	18	180	185	968	950	295	290	3	LBF	sandy clay	
35	17445	475	1558	608	615	7	185	187	950	943	290	288	3	LBF	sand	
35	17445	475	1558	615	618	3	187	188	943	940	288	287	3	LBF	clay	
35	17445	475	1558	618	632	14	188	193	940	926	287	282	3	LBF	sand	
35	17445	475	1558	632	648	16	193	198	926	910	282	277	3	LBF	sandy clay	
35	17445	475	1558	648	655	7	198	200	910	903	277	275	3	LBF	sand	
35	17445	475	1558	655	660	5	200	201	903	898	275	274	3	LBF	clay	
35	17445	475	1558	660	702	42	201	214	898	856	274	261	3	LBF	sand & gravel	
35	17445	475	1558	702	730	28	214	223	856	828	261	252	3	LBF	clay	
35	17445	475	1558	730	758	28	223	231	828	800	252	244	3	LBF	sandy clay	
35	17445	475	1558	758	777	19	231	237	800	781	244	238	3	LBF	clay, with streaks of sand	
35	17445	475	1558	777	800	23	237	244	781	758	238	231	3	LBF	sandy clay	
35	17445	475	1558	800	818	18	244	249	758	740	231	226	3	LBF	clay with streaks of sand	
35	17445	475	1558	818	825	7	249	251	740	733	226	224	3	LBF	sandy clay	
35	17445	475	1558	825	845	20	251	258	733	713	224	217	3	LBF	sand	
35	17445	475	1558	845	918	73	258	280	713	640	217	195	3	LBF	sandy clay with gravel strata's	
35	17445	475	1558	918	950	32	280	290	640	608	195	185	3	LBF	hard sand & gravel	
35	17445	475	1558	950	955	5	290	291	608	603	185	184	3	LBF	clay	
35	17445	475	1558	955	965	10	291	294	603	593	184	181	3	LBF	sand & gravel	
35	17445	475	1558	965	975	10	294	297	593	583	181	178	3	LBF	sandy clay	
35	17445	475	1558	975	1040	65	297	317	583	518	178	158	3	LBF	sand & gravel	
35	17445	475	1558	1040	1060	20	317	323	518	498	158	152	3	LBF	sticky clay	
35	17445	475	1558	1060	1130	70	323	344	498	428	152	131	3	LBF	sand & gravel	
35	17445	475	1558	1130	1200	70	344	366	428	358	131	109	3	LBF	sandy clay with some gravel	
35	17445	475	1558	1200	1222	22	366	372	358	336	109	103	3	LBF	sand & gravel	
35	17445	475	1558	1222	1245	23	372	379	336	313	103	96	3	LBF	clay, strata's of sand & gravel	
35	17445	475	1558	1245	1365	120	379	416	313	193	96	59	3	LBF	sand & gravel	
35	17445	475	1558	1365	1375	10	416	419	193	183	59	56	3	LBF	sticky clay	
35	17445	475	1558	1375	1443	68	419	440	183	115	56	35	3	LBF	sand & gravel	
35	17445	475	1558	1443	1463	20	440	446	115	95	35	29	3	LBF	gravelly clay	
35	17445	475	1558	1463	1568	105	446	478	95	-10	29	-3	3	LBF	sand & gravel	
35	17445	475	1558	1568	1660	92	478	506	-10	-102	-3	-31	3	LBF	cemented sand & gravel	
35	17445	475	1558	1660	1700	40	506	518	-102	-142	-31	-43	3	LBF	sand & gravel	
35	17445	475	1558	1700	1725	25	518	526	-142	-167	-43	-51	3	LBF	sandy clay	
35	17445	475	1558	1725	1750	25	526	533	-167	-192	-51	-58	3	LBF	sand & gravel	
35	17445	475	1558	1750	1780	30	533	543	-192	-222	-58	-68	3	LBF	conglomerate	
35	17445	475	1558	1780	1803	23	543	550	-222	-245	-68	-75	3	LBF	cemented sand & gravel	
35	17514	463	1517	0	16	16	0	5	1517	1501	463	458	1	VF	top soil	
35	17514	463	1517	16	30	14	5	9	1501	1487	458	453	1	VF	caliche	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (ft)	To Depth (ft)	Thickness (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	HGUID	HGU Code	Lithology	Notes	
	35	17514	463	1517	30	280	250	9	85	1487	1237	453	377	2	UBF	clay	
	35	17514	463	1517	280	320	40	85	98	1237	1197	377	365	2	UBF	clay with streaks of sand	
	35	17514	463	1517	320	510	190	98	155	1197	1007	365	307	2	UBF	clay with some shale	
	35	17514	463	1517	510	840	330	155	256	1007	677	307	206	2	UBF	shale	
	35	17514	463	1517	840	1800	960	256	549	677	-283	206	-86	5	B	hard granite rock	
	55	566802	366	1202	0	218	218	0	66	1202	984	366	300	1	VF	gravel and clay	
	55	566802	366	1202	218	367	149	66	112	984	835	300	255	2	UBF	sandy clay	
	55	566802	366	1202	367	637	270	112	194	835	565	255	172	2	UBF	sand w/ some clay	
	55	566802	366	1202	637	977	340	194	298	565	225	172	69	2	UBF	sand, gravel w/ clay	
	55	566802	366	1202	977	1274	297	298	388	225	-72	69	-22	2	UBF	hard dry clay	
	55	566802	366	1202	1274	1747	473	388	532	-72	-545	-22	-166	2	UBF	gravel, sandy clay	
OG	605	408	1338	0	100	100	0	30	1338	1238	408	377	1	VF	Quaternary Alluvium. Siltstone, brown. Gravel or conglomeritic Loose in Sample, quartz,?? Grnl,??, asp, sch,grnl & pebbly, partly sandy	From abbreviated log descriptions	
OG	605	408	1338	100	150	50	30	46	1238	1188	377	362	1	VF	Svl conglomeritic as above, Vcolored, scattered argillaceous Limestone grnl		
OG	605	408	1338	150	200	50	46	61	1188	1138	362	347	1	VF	Sandstone Very C conglomeritic Gbl or conglomeritic Bc, cobble		
OG	605	408	1338	200	250	50	61	76	1138	1088	347	332	1	VF	Sandstone , conglomerate, Loose in Sample. Gravel or conglomeritic loose in solution		
OG	605	408	1338	250	300	50	76	91	1088	1038	332	316	1	VF	Sandstone very colored, predominantly Light gray, Loose in Sample		
OG	605	408	1338	300	350	50	91	107	1038	988	316	301	1	VF	Sandstone as above, scal magnt gr, argillaceous Limestone grn		
OG	605	408	1338	350	400	50	107	122	988	938	301	286	1	VF	Gravel or conglomerate, Loose in Sample Interbedded conglomeritic sandstone loose		
OG	605	408	1338	400	450	50	122	137	938	888	286	271	1	VF	Svl or conglomeritic as above, quartzite grnl common		
OG	605	408	1338	450	500	50	137	152	888	838	271	256	2	UBF	Sandstone predominantly Light gray, Loose. Arkose conglomerate, magnt grains.		
OG	605	408	1338	500	550	50	152	168	838	788	256	240	2	UBF	Gravel or conglomeritic very colored, loose in sample, scattered metamorphic rock grn		
OG	605	408	1338	550	600	50	168	183	788	738	240	225	2	UBF	Become predominantly arkosic		
OG	605	408	1338	600	700	100	183	213	738	638	225	195	2	UBF	Gravel or conglomeritic as above. Sandstone light gray, arkosic , conglomeritic/quartz & ltg grnl loose in sample.		
OG	605	408	1338	700	750	50	213	229	638	588	195	179	2	UBF	Siltstone tan, calcareous shaley light gray red		
OG	605	408	1338	750	800	50	229	244	588	538	179	164	2	UBF	sandstone predominantly light gray, loose in sample. Gravel or conglomeritic very colored, loose in sample, very arkosic , sub angular to sub round.		
OG	605	408	1338	800	900	100	244	274	538	438	164	134	2	UBF	Gravel or conglomeritic loose in sample ?? sandy		
OG	605	408	1338	900	950	50	274	290	438	388	134	118	2	UBF	Sandstone predominantly light gray, loose in sample. Shale light gray red, calcareous		
OG	605	408	1338	950	1000	50	290	305	388	338	118	103	2	UBF	Gravel or conglomeritic very colored, loose in sample, sub angular to sub round		
OG	605	408	1338	1000	1050	50	305	320	338	288	103	88	2	UBF	Gravel or conglomeritic as abbreviated occasional siltstone & clayey grnl?		
OG	605	408	1338	1050	1100	50	320	335	288	238	88	73	2	UBF	Claystone tan		

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OG	605	408	1338	1100	1200	100	335	366	238	138	73	42	2	UBF	Siltstone tan; Claystone tan light brown, calcareous, probably bentonite.	
OG	605	408	1338	1200	1300	100	366	396	138	38	42	12	2	UBF	Claystone, same as abbreviated	
OG	605	408	1338	1300	1350	50	396	411	38	-12	12	-4	2	UBF	Claystone tan brown, calcareous bentonite	
OG	605	408	1338	1350	1400	50	411	427	-12	-62	-4	-19	2	UBF	Bentonite light gray	
OG	605	408	1338	1400	1500	100	427	457	-62	-162	-19	-49	2	UBF	Claystone as above, slaty mica	
OG	605	408	1338	1500	1600	100	457	488	-162	-262	-49	-80	2	UBF	Claystone as above, slaty mica	
OG	605	408	1338	1600	1650	50	488	503	-262	-312	-80	-95	2	UBF	Claystone as abbreviated becoming gypsum	
OG	605	408	1338	1650	1700	50	503	518	-312	-362	-95	-110	2	UBF	Srnl loose in sample	
OG	605	408	1338	1700	1800	100	518	549	-362	-462	-110	-141	2	UBF	Claystone as above, grnl. Loose in sample, caving. Become anhydrite	
OG	605	408	1338	1800	1900	100	549	579	-462	-562	-141	-171	2	UBF	Claystone as above, becoming anhydrite, less calcareous	
OG	605	408	1338	1900	1950	50	579	594	-562	-612	-171	-186	2	UBF	Claystone as abbreviated	
OG	605	408	1338	1950	2000	50	594	610	-612	-662	-186	-202	2	UBF	Anhydrite light gray white	
OG	605	408	1338	2000	2100	100	610	640	-662	-762	-202	-232	2	UBF	Claystone as above, incr anhydrite	
OG	605	408	1338	2100	2200	100	640	671	-762	-862	-232	-263	2	UBF	Claystone as abbreviated	
OG	605	408	1338	2200	2300	100	671	701	-862	-962	-263	-293	2	UBF	Claystone as abbreviated	
OG	605	408	1338	2300	2400	100	701	732	-962	-1062	-293	-324	3	LBF	Anhydrite, gray white. Claystone, & siltstone brown tan, Interbedded gray white anhydrite.	
OG	605	408	1338	2400	2500	100	732	762	-1062	-1162	-324	-354	3	LBF	Anhydrite gray white, Interbedded brown Claystone & siltstone	
OG	605	408	1338	2500	2550	50	762	777	-1162	-1212	-354	-369	3	LBF	Siltstone brown, interbedded white anhydrite	
OG	605	408	1338	2550	2600	50	777	792	-1212	-1262	-369	-385	3	LBF	Claystone brown, partly silty	
OG	605	408	1338	2600	2650	50	792	808	-1262	-1312	-385	-400	3	LBF	Claystone as above, siltstone brown	
OG	605	408	1338	2650	2700	50	808	823	-1312	-1362	-400	-415	3	LBF	Anhydrite gray white	
OG	605	408	1338	2700	2800	100	823	853	-1362	-1462	-415	-446	3	LBF	Anhydrite gray white, Itbd brown claystone & siltstone	
OG	605	408	1338	2800	2900	100	853	884	-1462	-1562	-446	-476	3	LBF	Claystone brown, anhydrite gray white	
OG	605	408	1338	2900	3000	100	884	914	-1562	-1662	-476	-507	3	LBF	Anhydrite gray white, occasional interbedded brown claystone & siltstone	
OG	605	408	1338	3100	3150	50	945	960	-1762	-1812	-537	-552	3	LBF	Anhydrite gray white csg cement	
OG	605	408	1338	3150	3200	50	960	975	-1812	-1862	-552	-567	3	LBF	Siltstone light gray-red tan bf.	
OG	605	408	1338	3200	3250	50	975	991	-1862	-1912	-567	-583	3	LBF	Shale gray-red interbedded tan bf gray red siltstone .	
OG	605	408	1338	3250	3300	50	991	1006	-1912	-1962	-583	-598	3	LBF	Shale medium brown - red, partly silty	
OG	605	408	1338	3300	3350	50	1006	1021	-1962	-2012	-598	-613	3	LBF	Shale light medium brown-red siltstone light medium brown-red	
OG	605	408	1338	3350	3400	50	1021	1036	-2012	-2062	-613	-628	3	LBF	Become slaty anhydrite, anhydrite gray white	
OG	605	408	1338	3400	3500	100	1036	1067	-2062	-2162	-628	-659	3	LBF	Shale light red brown-red anhydrite gray white	
OG	605	408	1338	3500	3550	50	1067	1082	-2162	-2212	-659	-674	3	LBF	Shale light medium brown-red, sandstone structure, anhydrite	
OG	605	408	1338	3550	3600	50	1082	1097	-2212	-2262	-674	-689	3	LBF	Anhydrite light gray white, interbedded light brown-red-brown shaley	
OG	605	408	1338	3600	3700	100	1097	1128	-2262	-2362	-689	-720	3	LBF	Anhydrite light gray white, occasional brown-red shaley parting	
OG	605	408	1338	3700	3750	50	1128	1143	-2362	-2412	-720	-735	3	LBF	Shale brown-recovered brown, anhydrite probably anhydrite structure, floating sandy	

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OG	605	408	1338	3750	3800	50	1143	1158	-2412	-2462	-735	-750	3	LBF	Sandstone structure. Anhydrite light gray white. Siltstone brown red, shy shaley light green, possibly tuff?, trace green chert, interbedded brown-red shale.	
OG	605	408	1338	3800	3850	50	1158	1173	-2462	-2512	-750	-766	3	LBF	Anhydrite light gray. Shale, light green possibly tuff? Shale red. Sandstone light medium red, Slate calcareous, interbedded red shale	
OG	605	408	1338	3850	3900	50	1173	1189	-2512	-2562	-766	-781	3	LBF	Anhydrite structure	
OG	605	408	1338	3900	3950	50	1189	1204	-2562	-2612	-781	-796	3	LBF	Shale brown-red. Sandstone light red. Shale brown-red. Sandstone medium red, loose in sample. Become very conglomeratic	
OG	605	408	1338	3950	4000	50	1204	1219	-2612	-2662	-796	-811	3	LBF	Shale brown-red/gray white clayey common , possibly tuff?	
OG	605	408	1338	4000	4100	100	1219	1250	-2662	-2762	-811	-842	3	LBF	Tuff gray white, shaley brown-red, partly sandy. Sandstone red, loose in sample. Csg cement. Siltstone & Shale brown-red, loose sand gr common	
OG	605	408	1338	4100	4200	100	1250	1280	-2762	-2862	-842	-872	3	LBF	Shale brown-red, partly sandy sandstone structure. Sandstone medium red. Become conglomerate, predominantly loose in sample; Shale brown-red conglomeritic very colored, loose in sample, volcanic rock grnl common occasional interbedded brown-red	
OG	605	408	1338	4200	4300	100	1280	1311	-2862	-2962	-872	-903	3	LBF	conglomeritic very colored loose in sample tuff & welded tuff grnl common interbedded red bentonite & tuffaceous shale	
OG	605	408	1338	4300	4350	50	1311	1326	-2962	-3012	-903	-918	3	LBF	conglomeritic as above, partly very sandy	
OG	605	408	1338	4350	4400	50	1326	1341	-3012	-3062	-918	-933	3	LBF	Sandstone gray white, loose in sample	
OG	605	408	1338	4400	4450	50	1341	1356	-3062	-3112	-933	-948	3	LBF	Shale brown-red, bentonite, partly tuff?, sandy, partly calcareous, scattered fragmental of volcanic rock, grnl? Tuff sandstone structure	
OG	605	408	1338	4450	4500	50	1356	1372	-3112	-3162	-948	-964	3	LBF	Sandstone light red, partly tuffaceous, loose	
OG	605	408	1338	4500	4550	50	1372	1387	-3162	-3212	-964	-979	3	LBF	Shale medium brown-red partly sandy calcareous sandstone structure.	
OG	605	408	1338	4550	4600	50	1387	1402	-3212	-3262	-979	-994	3	LBF	Sandstone light gray red, loose in sample; Become conglomeratic. Shale brown-red; Sandstone light red loose in sample. Siltstone & shaley brown-red	
OG	605	408	1338	4600	4650	50	1402	1417	-3262	-3312	-994	-1009	3	LBF	Sandy, conglomerate, light gray red, loose in sample. Siltstone medium red, tuffaceous shaley red	
OG	605	408	1338	4650	4700	50	1417	1433	-3312	-3362	-1009	-1025	3	LBF	Sandstone light gray red, loose in sample;	
OG	605	408	1338	4700	4750	50	1433	1448	-3362	-3412	-1025	-1040	3	LBF	Bentonite or bentonite white clayey interbedded red tuffaceous siltstone shaley c sandstone structure. Sandstone gray red, loose in sample	
OG	605	408	1338	4750	4800	50	1448	1463	-3412	-3462	-1040	-1055	3	LBF	Sandstone light gray red, loose in sample; Siltstone & shaley brown-red, slaty tuff?, partly bentonite.	
OG	605	408	1338	4800	4900	100	1463	1494	-3462	-3562	-1055	-1086	3	LBF	Shale brown-red, bentonite occasional sandy siltstone structure. Bentonite gray white	

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OG	605	408	1338	4900	4950	50	1494	1509	-3562	-3612	-1086	-1101	3	LBF	Shale brown-red, partly siltstone /trace sandstone structure.	
OG	605	408	1338	4950	5000	50	1509	1524	-3612	-3662	-1101	-1116	3	LBF	Tuff red. Sandstone orange red, possibly partly tuff/scattered tuff fractured, shy shale & siltstone brown-red	
OG	605	408	1338	5000	5050	50	1524	1539	-3662	-3712	-1116	-1131	3	LBF	bentonite, calcareous, partly sandy sandstone brown red, possibly tuffaceous, /large tuff fragment	
OG	605	408	1338	5050	5100	50	1539	1554	-3712	-3762	-1131	-1147	3	LBF	Sandstone bright medium brown-red	
OG	605	408	1338	5100	5200	100	1554	1585	-3762	-3862	-1147	-1177	3	LBF	shaley bright medium brown-red, partly silty, occasional red interbedded argillaceous sandstone & sandstone structure	
OG	605	408	1338	5200	5300	100	1585	1615	-3862	-3962	-1177	-1208	3	LBF	Sandstone medium red, slaty anhydrite, scattered biotite, interbedded red brown-red shale, partly bentonite	
OG	605	408	1338	5300	5350	50	1615	1631	-3962	-4012	-1208	-1223	3	LBF	Sandstone medium red biotite common , interbedded brown-red shaley & siltstone	
OG	605	408	1338	5350	5400	50	1631	1646	-4012	-4062	-1223	-1238	3	LBF	Sandstone red, tuffaceous, interbedded sandy tuff partly green shy sandstone, slaty calcareous	
OG	605	408	1338	5400	5500	100	1646	1676	-4062	-4162	-1238	-1269	3	LBF	Sandstone & siltstone medium brown red, tuffaceous, slaty calcareous, very argillaceous, shy occasional brown-red bentonite shale	
OG	605	408	1338	5500	5550	50	1676	1692	-4162	-4212	-1269	-1284	3	LBF	Sandstone brown red, tuffaceous siltstone & shaley brown-red. Sandstone light gray red, loose in sample	
OG	605	408	1338	5550	5600	50	1692	1707	-4212	-4262	-1284	-1299	3	LBF	Sandstone brown red, tuffaceous, siltstone & shaley brown-red, sandstone brown red, tuff.	
OG	605	408	1338	5600	5650	50	1707	1722	-4262	-4312	-1299	-1314	3	LBF	Siltstone brown red, shaley brown-red; Siltstone brown-red, tuffaceous, partly sandy/red tuffaceous sandstone structure, argillaceous shy	
OG	605	408	1338	5650	5700	50	1722	1737	-4312	-4362	-1314	-1329	3	LBF	Sandstone brown red, predominantly loose in sample, biotite common , scattered tuff frag	
OG	605	408	1338	5700	5750	50	1737	1753	-4362	-4412	-1329	-1345	3	LBF	Siltstone brown-red, tuffaceous, partly sandy, scattered tuff, fragmental or grnl? Become bentonitic	
OG	605	408	1338	5750	5800	50	1753	1768	-4412	-4462	-1345	-1360	3	LBF	Welded tuff grnl loose & common in sample conglomeritic very colored, tuff grnl common to abundant quartz grnl	
OG	605	408	1338	5800	5900	100	1768	1798	-4462	-4562	-1360	-1390	3	LBF	Loose in sample sandstone light red gray, loose in sample, occasional tuff fragment. Interbedded tuffaceous red siltstone	
OG	605	408	1338	5900	6000	100	1798	1829	-4562	-4662	-1390	-1421	3	LBF	Siltstone & sandstone as abbreviated Shale brown, red - brown, tuffaceous sandstone very colored, tuffaceous, calcareous siltstone brown recovered, tuffaceous shy, sandstone very colored, loose tuff fragment & grul, possibly bdd tuff interbedded tuffaceous siltstone ; Bentonite gray white ??	
OG	605	408	1338	6000	6050	50	1829	1844	-4662	-4712	-1421	-1436	3	LBF	Sandstone loose in sample, interbedded red tuffaceous siltstone .	

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OG	605	408	1338	6050	6100	50	1844	1859	-4712	-4762	-1436	-1451	3	LBF	Wedded tuff, vcol	
OG	605	408	1338	6100	6150	50	1859	1875	-4762	-4812	-1451	-1467	3	LBF	Sandstone very colored, loose in sample tuff fragmental & grnl common , bdd tuff? Siltstone brown red sandy, very tuffaceous, shy ,slatey calcareous	
OG	605	408	1338	6150	6200	50	1875	1890	-4812	-4862	-1467	-1482	3	LBF	Sandstone red, predominantly loose in sample, tuffaceous, slatey calcareous, interbedded tuffaceous siltstone & possibly tuff, loose biot	
OG	605	408	1338	6200	6250	50	1890	1905	-4862	-4912	-1482	-1497	3	LBF	common ; Sandstone red, shy, tuffaceous, slatey calcareous	
OG	605	408	1338	6250	6300	50	1905	1920	-4912	-4962	-1497	-1512	3	LBF	Siltstone red, sandy, tuffaceous probably bdd tuff & welded tuff	
OG	605	408	1338	6300	6350	50	1920	1936	-4962	-5012	-1512	-1528	3	LBF	Siltstone red, sandy tuffaceous occasional sandstone strace & bdd tuff & welded tuff.	
OG	605	408	1338	6350	6400	50	1936	1951	-5012	-5062	-1528	-1543	3	LBF	Sandstone red, slatey calcareous, biot	
OG	605	408	1338	6400	6500	100	1951	1981	-5062	-5162	-1543	-1573	3	LBF	Siltstone bri red, sandy, tuffaceous welded tuff pink; Sandstone red, predominantly loose in sample, welded tuff, pink; Sandstone red, very arkosic , predominantly Loose in sample, possibly tuffaceous siltstone structure.	
OG	605	408	1338	6500	6550	50	1981	1996	-5162	-5212	-1573	-1589	3	LBF	Sandstone red, loose in sample welded tuff, pink, very colored interbedded tuffaceous red siltstone , sandy shy.	
OG	605	408	1338	6550	6600	50	1996	2012	-5212	-5262	-1589	-1604	3	LBF	Sandstone red, arock siltstone red, tuffaceous, partly calcareous sandstone red, perd loose in sample welded tuff pink, interbedded tuf.	
OG	605	408	1338	6600	6700	100	2012	2042	-5262	-5362	-1604	-1634	4	MT	Siltstone, welded tuff pink, sandstone, red, loose in sample, welded tuff, lav&gn; Sltts red, very sandytuf; Welded tuff,dark lav-green, partly pink red, red, sand & siltstone common in sample	
OG	605	408	1338	6700	6800	100	2042	2073	-5362	-5462	-1634	-1665	4	MT	Mica, common ; Tuff & eded tuff lavender green bf-green, mica sample possibly average shaley parting	
OG	605	408	1338	6800	6900	100	2073	2103	-5462	-5562	-1665	-1695	4	MT	Sandstone light orng red, loose in sample shaley light purple lavender, very tuffaceous, silty. Sandstone light red orng, loose in sample; shaley lavender red, tuffaceous / probably bdd welded tuff. Sandstone light orng red, loose in sample	
OG	605	408	1338	6900	7000	100	2103	2134	-5562	-5662	-1695	-1726	4	MT	Welded tuff lavender pink shaley lavender red, tuf. Tuff very colored, predominantly lavender	
OG	605	408	1338	7000	7050	50	2134	2149	-5662	-5712	-1726	-1741	4	MT	Tuff as above. Sandstone orng red, loose in sample, tuff lavender pink, loose sand common in sample, cvg?	
OG	605	408	1338	7050	7100	50	2149	2164	-5712	-5762	-1741	-1756	4	MT	Partly welded tuff	
OG	605	408	1338	7100	7200	100	2164	2195	-5762	-5862	-1756	-1787	4	MT	Tuff as above, abundant cvg?	
OG	605	408	1338	7200	7300	100	2195	2225	-5862	-5962	-1787	-1817	4	MT	Tuff as above, abundant cvg? Or possibly interbedded red tuffaceous shale, siltstone & sandstone	
OG	605	408	1338	7300	7350	50	2225	2240	-5962	-6012	-1817	-1832	4	MT	Siltstone & sandstone medium dark red	

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OG	605	408	1338	7350	7400	50	2240	2256	-6012	-6062	-1832	-1848	4	MT	Tuff pink. Sandstone red, loose in sample welded tuff & tuff	
OG	605	408	1338	7400	7450	50	2256	2271	-6062	-6112	-1848	-1863	4	MT	Lavery pink, abundant cvg	
OG	605	408	1338	7450	7500	50	2271	2286	-6112	-6162	-1863	-1878	4	MT	Become sandy interbedded tuffaceous sandstone	
OG	605	408	1338	7500	7550	50	2286	2301	-6162	-6212	-1878	-1893	4	MT	Sandstone red, predominantly loose in sample.	
OG	605	408	1338	7550	7600	50	2301	2317	-6212	-6262	-1893	-1909	4	MT	Tuff lavender. Become dark lavender green	
OG	605	408	1338	7600	7700	100	2317	2347	-6262	-6362	-1909	-1939	4	MT	Tuff & tuffaceous red shale	
OG	605	408	1338	7700	7800	100	2347	2377	-6362	-6462	-1939	-1970	4	MT	Tuff red lavender-red possibly interbedded sandy tuffaceous shale, occasional red sandstone loose in sample	
OG	605	408	1338	7800	7850	50	2377	2393	-6462	-6512	-1970	-1985	4	MT	Tuff lavender, interbedded red tuffaceous shaley & red sandstone loose in sample. Become welded tuff.	
OG	605	408	1338	7850	7900	50	2393	2408	-6512	-6562	-1985	-2000	4	MT	Sandstone orgn, loose in sample, cvg?; Shale red, tuffaceous, brecciated fragmental of gn	
OG	605	408	1338	7900	8000	100	2408	2438	-6562	-6662	-2000	-2031	4	MT	Tuff, fld ??l & gr common , sandy, scattered biot sandstone red, arkosic , loose interbedded red shaley partly tuffaceous	7890-7920 ft, sample dated with K-Ar whole rock at 18.9 Ma
OG	605	408	1338	8000	8050	50	2438	2454	-6662	-6712	-2031	-2046	4	MT	Tuff pink; Sandstone red, loose interbedded red tuffaceous shale, biot common	
OG	605	408	1338	8050	8100	50	2454	2469	-6712	-6762	-2046	-2061	4	MT	Tuff & welded tuff pink sandstone red, loose interbedded pink tuff.	
OG	605	408	1338	8100	8150	50	2469	2484	-6762	-6812	-2061	-2076	4	MT	Tuff bk??	
OG	605	408	1338	8150	8200	50	2484	2499	-6812	-6862	-2076	-2091	4	MT	Abundant loose sand, cvg? Partly welded prphy?? Sandstone light red loose in sample.	
OG	605	408	1338	8200	8250	50	2499	2515	-6862	-6912	-2091	-2107	4	MT	Tuff pink	
OG	605	408	1338	8250	8300	50	2515	2530	-6912	-6962	-2107	-2122	4	MT	Abundant loose sand, cvg? & bit metal, welded tuff, lavender pink, prphy.	
OG	605	408	1338	8300	8400	100	2530	2560	-6962	-7062	-2122	-2152	4	MT	Welded tuff grnl loose & common in sample conglomeritic very colored, tuff grnl common to abundant quartz grnl	
OG	605	408	1338	8400	8500	100	2560	2591	-7062	-7162	-2152	-2183	4	MT	Tuff & welded tuff, medium red lavender-red, vesicular, biot common , scattered fld & quartz phenocrysts	
OG	605	408	1338	8500	8600	100	2591	2621	-7162	-7262	-2183	-2213	4	MT	Tuff & welded tuff as abbreviated .	
OG	605	408	1338	8600	8700	100	2621	2652	-7262	-7362	-2213	-2244	4	MT	Tuff & welded tuff as abbreviated .	
OG	605	408	1338	8700	8800	100	2652	2682	-7362	-7462	-2244	-2274	4	MT	Tuff & welded tuff as above, predominantly medium red lavender red, vesicular, biot common , scattered quartz & fld phenocrysts	
OG	605	408	1338	8800	8900	100	2682	2713	-7462	-7562	-2274	-2305	4	MT	Tuff & welded tuff as above, very colored, predominantly red & law - red	
OG	605	408	1338	8900	9000	100	2713	2743	-7562	-7662	-2305	-2335	4	MT	Tuff & welded tuff as above, very colored red & lavender-red pred, becoming partly green	
OG	605	408	1338	9000	9050	50	2743	2758	-7662	-7712	-2335	-2351	4	MT	Tuff & welded tuff, bri vcol.	
OG	605	408	1338	9050	9100	50	2758	2774	-7712	-7762	-2351	-2366	4	MT	Tuff & welded tuff vcol.	

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OG	605	408	1338	9100	9150	50	2774	2789	-7762	-7812	-2366	-2381	4	MT	Shale brown-red, partly very sandy tuffaceous, red argillaceous tuff, sandstone trace common, partly calcareous	
OG	605	408	1338	9150	9200	50	2789	2804	-7812	-7862	-2381	-2396	4	MT	Trace hematitic g rock, probably gabbro	
OG	605	408	1338	9200	9207	7	2804	2806	-7862	-7869	-2396	-2398	5	B	Or related rock green, partly lavender, light gray acicular crystal common, trace calcite	
OG	611	407	1336	0	50	50	0	15	1336	1286	407	392	1	VF	sandstone light gray-brown loose, abundant quartz tuff & long grnl, 40% tuff grain, 10% long grain trace chert grain, scal welded tuff grain & grnl.	Logs summarized from OG well files.
OG	611	407	1336	50	100	50	15	30	1286	1236	392	377	1	VF	Conglomerate light gray, loose, pebble argillaceous calcareous, slaty sandy, scattered grnl trace quartzite. increasing grnl, scattered schist pebble	
OG	611	407	1336	100	150	50	30	46	1236	1186	377	361	1	VF	trace quartzite pebble. Conglomerate very light red-gray, Predominantly argillaceous silty tuff limestone grnl argillaceous calcareous, very sandy, loose abundant pebble, become pebble Conglomerate, mica in limestone pebble	
OG	611	407	1336	150	200	50	46	61	1186	1136	361	346	1	VF	sandy silty argillaceous limestone grnl, abundant pebble, abundant loose sand grain. Poor sand, increasing pebble, scattered metamorphic pebble, trace chert pebble.	
OG	611	407	1336	200	250	50	61	76	1136	1086	346	331	1	VF	Conglomerate very light red-gray to cream. Predominantly sandy silty argillaceous mica limestone pebble & grnl, loose argillaceous calcareous, slaty sandy. Predominantly pebble, scattered sandstone pebble, limestone pebble become very silty	
OG	611	407	1336	250	300	50	76	91	1086	1036	331	316	1	VF	Predominantly grnl, abundant pebble. sandstone light brown-gray, loose, 40% limestone grain, 10% chert grain, pebble & grnl	
OG	611	407	1336	300	350	50	91	107	1036	986	316	301	1	VF	increasing grnl & pebble. sandstone as above, very calcareous & argillaceous, loose, limestone pebble & grnl, trace fld. sandstone light brown-gray, loose, abundant grnl & pebble, 20% limestone, 20% chert.	
OG	611	407	1336	350	400	50	107	122	986	936	301	285	1	VF	Conglomerate light red-gray, loose, pebble & grnl, very sandy, argillaceous calcareous. trace sandstone & metamorphic pebble.	
OG	611	407	1336	400	450	50	122	137	936	886	285	270	2	UBF	trace fld grnl. sandstone light to medium gray, loose, abundant grnl scattered pebble, 10% igneous grain, 10% fld grain, 10% tuff grain.	
OG	611	407	1336	450	500	50	137	152	886	836	270	255	2	UBF	trace sandstone & quartzite pebble. trace schist pebble. Conglomerate light gray, loose, caving, Predominantly silty mica limestone pebble, argillaceous calcareous, trace sandstone & chert pebble.	

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OG	611	407	1336	500	550	50	152	168	836	786	255	240	2	UBF	sandstone light brown-gray, loose, trace grnl & pebble. Conglomerate light gray, loose grnl scattered pebble, argillaceous calcareous sandy very sandy, increasing pebble.	
OG	611	407	1336	550	600	50	168	183	786	736	240	224	2	UBF	sandstone light brown-gray, loose light brown limestone pebble, trace igneous & quartz pebble. Conglomerate very light gray-brown, loose, argillaceous calcareous, Predominantly silty argillaceous limestone pebble.	
OG	611	407	1336	600	650	50	183	198	736	686	224	209	2	UBF	sandstone light brown-gray, loose, scattered grnl & pebble, abundant light brown calcareous clayey in sample. trace igneous pebble.	
OG	611	407	1336	650	700	50	198	213	686	636	209	194	2	UBF	Conglomerate light gray-brown, loose silty argillaceous mica limestone pebble argillaceous calcareous. sandstone light brown-gray, loose, abundant light brown calcareous clayey in sample, argillaceous calcareous pebble & grnl, trace fld & igneous pebble.	
OG	611	407	1336	700	750	50	213	229	636	586	194	179	2	UBF	Conglomerate light brown-gray, loose, grnl & pebble, argillaceous calcareous	
OG	611	407	1336	750	800	50	229	244	586	536	179	163	2	UBF	sandstone light brown-gray, loose, grnl & pebble, trace fld & chert grain	
OG	611	407	1336	800	850	50	244	259	536	486	163	148	2	UBF	decrease pebble & grnl, trace igneous pebble. Conglomerate light brown-gray, loose, grnl & pebble, very sandy, argillaceous calcareous	
OG	611	407	1336	850	900	50	259	274	486	436	148	133	2	UBF	sandstone light brown-gray, loose, caving, abundant pebble & grnl	
OG	611	407	1336	900	950	50	274	290	436	386	133	118	2	UBF	decrease pebble & grnl-abundant light brown calcareous clay. Creamy bentonitic string, occasional quartzite grnl.	
OG	611	407	1336	950	1000	50	290	305	386	336	118	102	2	UBF	grnt, trace pebble. Conglomerate light gray, loose, grnl & pebble, argillaceous. Claystone very light brown, grnl.	
OG	611	407	1336	1000	1050	50	305	320	336	286	102	87	2	UBF	sandstone light brown-gray, loose, grnl & pebble, loose, abundant brown calcareous clay. Predominantly light brown, very calcareous clay.	
OG	611	407	1336	1050	1100	50	320	335	286	236	87	72	2	UBF	trace loose sand grain in sample.	
OG	611	407	1336	1100	1200	100	335	366	236	136	72	41	2	UBF	Claystone light brown, slatey mica	
OG	611	407	1336	1200	1300	100	366	396	136	36	41	11	2	UBF	Claystone light brown, mica. light to medium brown, slatey silty. slatey mic-mica. light brown.	
OG	611	407	1336	1300	1400	100	396	427	36	-64	11	-20	2	UBF	Claystone light brown, slatey mica & mic-mica	
OG	611	407	1336	1400	1500	100	427	457	-64	-164	-20	-50	2	UBF	Claystone light brown, slatey mic-mica. light brown very sandy siltstone structure. trace loose pebble & grnl	
OG	611	407	1336	1500	1600	100	457	488	-164	-264	-50	-80	2	UBF	Claystone light brown, slatey mic-mica scattered sand? grain? Slate sandy.	

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OG	611	407	1336	1600	1700	100	488	518	-264	-364	-80	-111	2	UBF	Claystone light to medium brown, trace white tabular gypiferous inclusion. slatey sandy	Top elevation of evaporite minerals, -264 ft
OG	611	407	1336	1700	1750	50	518	533	-364	-414	-111	-126	2	UBF	Claystone light to medium brown, trace white anhydritic inclusion, slatey mic-mica. trace white blocky & tabular gray inclusion.	
OG	611	407	1336	1750	1800	50	533	549	-414	-464	-126	-141	2	UBF	White sandstone structure/interstitial gypiferous cemented.	
OG	611	407	1336	1800	1850	50	549	564	-464	-514	-141	-157	2	UBF	Claystone light to medium brown, trace white anhydritic inclusion, slatey mic-mica. increasing anhydritic Inclusion, slatey sandy.	
OG	611	407	1336	1850	1900	50	564	579	-514	-564	-157	-172	2	UBF	abundant white & trace clear anhydrite. decrease anhydrite, slatey sandy. increasing anhydrite.	
OG	611	407	1336	1900	1950	50	579	594	-564	-614	-172	-187	2	UBF	Claystone light to medium brown, trace white anhydritic inclusion, slatey mic-mica. abundant loose sand grain, Predominantly caving.	
OG	611	407	1336	1950	2000	50	594	610	-614	-664	-187	-202	2	UBF	Anhydrite white, partly sucrosic, caving. Claystone light to medium brown, trace white anhydritic inclusion, loose sand grain, probably caving.	
OG	611	407	1336	2000	2050	50	610	625	-664	-714	-202	-218	2	UBF	White anhydritic string, slatey mic-mica	
OG	611	407	1336	2050	2100	50	625	640	-714	-764	-218	-233	2	UBF	trace anhydrite	
OG	611	407	1336	2100	2150	50	640	655	-764	-814	-233	-248	2	UBF	Claystone light to medium brown, trace white anhydritic inclusion, slatey mic-mica.	
OG	611	407	1336	2150	2200	50	655	671	-814	-864	-248	-263	2	UBF	slatey sandy	
OG	611	407	1336	2200	2250	50	671	686	-864	-914	-263	-279	2	UBF	Claystone light to medium brown, trace white anhydritic inclusion, slatey mic-mica.	
OG	611	407	1336	2250	2300	50	686	701	-914	-964	-279	-294	2	UBF	Anhydrite white, very slatey sucrosic, interbedded brown Claystone structure	
OG	611	407	1336	2300	2400	100	701	732	-964	-1064	-294	-324	3	LBF	Claystone light to medium brown, bentonite	Top of evaporite sequence at 2,293 ft.
OG	611	407	1336	2400	2450	50	732	747	-1064	-1114	-324	-340	3	LBF	Anhydrite white; Claystone light to medium brown. Anhydrite white, interbedded brown Claystone structure	
OG	611	407	1336	2450	2500	50	747	762	-1114	-1164	-340	-355	3	LBF	siltstone brown, very mica. Anhydrite white, trace possibly s-c. Claystone brown bent; Anhydrite white, brown Claystone structure	
OG	611	407	1336	2500	2550	50	762	777	-1164	-1214	-355	-370	3	LBF	Claystone light to medium brown, bentonite. Anhydrite white. siltstone brown, mica, brown Claystone structure. Anhydrite white, interbedded brown silty Claystone structure	
OG	611	407	1336	2550	2600	50	777	792	-1214	-1264	-370	-385	3	LBF	brown siltstone structure	
OG	611	407	1336	2600	2700	100	792	823	-1264	-1364	-385	-416	3	LBF	brown mica siltstone structure. Moderate caving	
OG	611	407	1336	2700	2800	100	823	853	-1364	-1464	-416	-446	3	LBF	Anhydrite white, brown siltstone & Claystone structure. Predominantly light gray csg cemented.	
OG	611	407	1336	2800	2850	50	853	869	-1464	-1514	-446	-461	3	LBF	Anhydrite white, brown siltstone structure brown clysts structure, Predominantly light gray csg cemented.	

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OG	611	407	1336	2850	2900	50	869	884	-1514	-1564	-461	-477	3	LBF	siltstone light brown, mica; Claystone light to medium brown	
OG	611	407	1336	2900	2950	50	884	899	-1564	-1614	-477	-492	3	LBF	Anhydrite white, brown Claystone structure, abundant light gray csg cemented. brown stlst structure	
OG	611	407	1336	2950	3000	50	899	914	-1614	-1664	-492	-507	3	LBF	siltstone light brown; Anhydrite white. siltstone light brown; Anhydrite white. siltstone light brown. Anhydrite white. Little brown siltstone structure	
OG	611	407	1336	3000	3100	100	914	945	-1664	-1764	-507	-538	3	LBF	Claystone light brown; Anhydrite white. Claystone light brown, brown siltstone structure	
OG	611	407	1336	3100	3200	100	945	975	-1764	-1864	-538	-568	3	LBF	Claystone light brown, bentonite; Anhydrite white. siltstone light brown. Anhydrite white siltstone light brown. siltstone light brown, brown clyst	
OG	611	407	1336	3200	3300	100	975	1006	-1864	-1964	-568	-599	3	LBF	Anhydrite white. siltstone light brown , mica; Anhydrite white, light brown Claystone & siltstone structure. siltstone light brown; Anhydrite white. Claystone light brown, bent; Anhydrite white siltstone light brown mica.	
OG	611	407	1336	3300	3350	50	1006	1021	-1964	-2014	-599	-614	3	LBF	Claystone light brown siltstone light brown, mica. Anhydrite white. Claystone light red-brown. Anhydrite white; Claystone light brown, bentonite.	
OG	611	407	1336	3350	3400	50	1021	1036	-2014	-2064	-614	-629	3	LBF	Anhydrite gray-white. Claystone light brown. Anhydrite white. Claystone light brown, slaty mica. Anhydrite gray-white, brown Claystone structure.	
OG	611	407	1336	3400	3500	100	1036	1067	-2064	-2164	-629	-660	3	LBF	siltstone light brown; Anhydrite white. Claystone light brown; Anhydrite white.	
OG	611	407	1336	3500	3550	50	1067	1082	-2164	-2214	-660	-675	3	LBF	sandstone light red, fld grain, Claystone light brown. siltstone light brown, mica; Claystone light brown, trace white anhydritic inclusioned. sandstone light red-brown. Claystone light to medium brown, white bentonitic string, white anhydritic inclusioned	
OG	611	407	1336	3550	3600	50	1082	1097	-2214	-2264	-675	-690	3	LBF	sandstone light brown, mica, slaty calcareous; Claystone light brown. siltstone light brown. Claystone light brown ; siltstone light brown. Claystone light to medium brown, loose sand grain.	
OG	611	407	1336	3600	3650	50	1097	1113	-2264	-2314	-690	-705	3	LBF	sandstone light red, slaty mica; Claystone light to medium red-brown. Anhydrite gray-white. Claystone red-brown.	
OG	611	407	1336	3650	3700	50	1113	1128	-2314	-2364	-705	-721	3	LBF	siltstone red-brown, mica. Claystone red-brown; Anhydrite gray-white. Claystone light to medium brown. sandstone light red; Claystone light to medium brown.	
OG	611	407	1336	3700	3750	50	1128	1143	-2364	-2414	-721	-736	3	LBF	Claystone very light gray very light green-gray trace olive, slaty bentonite, possibly tuffaceous, very soft. Claystone light medium brown.	

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OG	611	407	1336	3750	3800	50	1143	1158	-2414	-2464	-736	-751	3	LBF	Claystone very light gray-green, possibly tuffaceous, soft. Claystone brown, light red sandstone structure; Claystone very light red, possibly tuffaceous, very structure.	
OG	611	407	1336	3800	3850	50	1158	1173	-2464	-2514	-751	-766	3	LBF	sandstone light to medium red, loose, quartz tuff & igneous grain, brown. Claystone structure. Claystone brown. sandstone red, loose; Claystone red-brown.	
OG	611	407	1336	3850	3900	50	1173	1189	-2514	-2564	-766	-782	3	LBF	sandstone red-brown, mica, slaty calcareous, tuf & tuf grain, silt. Claystone red-brown, bentonite. sandstone light red-brown, mica, slaty calcareous, tuf & tuff grain silt. Claystone red-brown, bentonite. sandstone light red, loose quartz tuff igneous grain, brown Claystone structure, trace grnl.	
OG	611	407	1336	3900	3950	50	1189	1204	-2564	-2614	-782	-797	3	LBF	Claystone brown; sandstone light brown, loose c grain. Anhydrite white; Claystone light brown. siltstone brown, mica. sandstone light red, loose quartz tuff & igneous grain, brown clayey structure.	
OG	611	407	1336	3950	4000	50	1204	1219	-2614	-2664	-797	-812	3	LBF	Anhydrite white. sandstone light red, loose, brown Claystone structure, scattered c grain, Predominantly quartz grain, tuff & igneous grain.	
OG	611	407	1336	4000	4100	100	1219	1250	-2664	-2764	-812	-842	3	LBF	sandstone gray-red, loose, quartz tuff fld & igneous grain. brown Claystone structure, scattered c grain, trace pebble.	
OG	611	407	1336	4100	4150	50	1250	1265	-2764	-2814	-842	-858	3	LBF	Assorted grnl	
OG	611	407	1336	4150	4200	50	1265	1280	-2814	-2864	-858	-873	3	LBF	grnl, trace pebble	
OG	611	407	1336	4200	4300	100	1280	1311	-2864	-2964	-873	-903	3	LBF	sandstone gray-red, loose, scattered grnl, quartz tuff igneous fld grain. grnl & pebble. brown Claystone structure.	
OG	611	407	1336	4300	4350	50	1311	1326	-2964	-3014	-903	-919	3	LBF	sandstone gray-red, loose, scattered grnl&pebble, quartz fld igneous & tuff grain. scattered c grain. brown Claystone structure.	
OG	611	407	1336	4350	4400	50	1326	1341	-3014	-3064	-919	-934	3	LBF	siltstone light brown, mica. sandstone gray-red, loose, scattered grnl, quartz fld tuff & igneous grain.	
OG	611	407	1336	4400	4500	100	1341	1372	-3064	-3164	-934	-964	3	LBF	brown Claystone structure, occasional c grain. light brown siltstone structure, increasing c grain, occasional grnl.	
OG	611	407	1336	4500	4550	50	1372	1387	-3164	-3214	-964	-980	3	LBF	sandstone gray-red, loose, c grain, occasional grnl quartz fld tuff igneous grain, brown Claystone & siltstone structure. occasional c grain.	
OG	611	407	1336	4550	4600	50	1387	1402	-3214	-3264	-980	-995	3	LBF	Caving. increasing caving	
OG	611	407	1336	4600	4650	50	1402	1417	-3264	-3314	-995	-1010	3	LBF	sandstone gray-red, loose scattered c grain, quartz fld tuff igneous grain. Caving	
OG	611	407	1336	4650	4700	50	1417	1433	-3314	-3364	-1010	-1025	3	LBF	Shale gray-brown, slaty calcareous, soft, brown siltstone structure.	

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OG	611	407	1336	4700	4750	50	1433	1448	-3364	-3414	-1025	-1041	3	LBF	sandstone gray-red, loose, brown shale structure. caving, scattered c grain, quartz fld long & tuff grain. occasional grnl.	
OG	611	407	1336	4750	4800	50	1448	1463	-3414	-3464	-1041	-1056	3	LBF	increasing c grain	
OG	611	407	1336	4800	4850	50	1463	1478	-3464	-3514	-1056	-1071	3	LBF	Shale brown, cly, blocky. sandstone gray-red. loose, scattered c grain. C grain, grnl,pebble, quartz igneous fld tuff grain.	
OG	611	407	1336	4850	4900	50	1478	1494	-3514	-3564	-1071	-1086	3	LBF	Shale red-brown, slaty calcareous & mic-mica. Cly, red-brown sandy siltstone structure, soft.	
OG	611	407	1336	4900	4950	50	1494	1509	-3564	-3614	-1086	-1102	3	LBF	sandstone brown-red, very mica, slaty calcareous, tuffaceous, brown shale structure. brown-red siltstone structure.	
OG	611	407	1336	4950	5000	50	1509	1524	-3614	-3664	-1102	-1117	3	LBF	siltstone brown-red, caving, mica tuffaceous.Shale red-brown, cly, slaty mic-mica. siltstone brown-red, caving, mica. Shale red-brown, caving, siltstone red.	
OG	611	407	1336	5000	5050	50	1524	1539	-3664	-3714	-1117	-1132	3	LBF	Shale red-brown, cly, soft; siltstone red-brown, mica. sandstone gray-red, loose, c grain & grnl. Shale red-brown, cly, loose grnl. siltstone brown-red, mica.	
OG	611	407	1336	5050	5100	50	1539	1554	-3714	-3764	-1132	-1147	3	LBF	Shale red-brown, loose grnl, slaty calcareous. siltstone brown-red, mica; Shale red-brown, cly, slaty calcareous & mic-mica. siltstone red-brown, mica. siltstone red-brown, mica. Shale red-brown, cly, slaty mic-mica.	
OG	611	407	1336	5100	5200	100	1554	1585	-3764	-3864	-1147	-1178	3	LBF	sandstone brown-red, mica; sandstone gray-red, loose scattered c grain, quartz fld tuff grain. siltstone brown-red, mica; sandstone gray-red, loose, caving. Shale red-brown, caving, cly. sandstone gray-red, loose quartz fld tuff igneous grain. Shale red-brown, caving. siltstone brown-red. Shale red-brown; sandstone gray-red. loose. Shale red-brown, caving, cly, blocky soft. siltstone brown-red, caving, mica, slaty tuff.	
OG	611	407	1336	5200	5300	100	1585	1615	-3864	-3964	-1178	-1208	3	LBF	sandstone gray-red, loose, scattered c grain, quartz fld igneous tuff grain. siltstone brown-red; Shale red-brown, clay. siltstone brown-red, mica slate? Shale red-brown, caving. sandstone red, loose, c grain. siltstone brown-red, mica tuffaceous, caving. siltstone brown-red, caving, mica; sandstone red, loose quartz fld tuff igneous grain. Shale red-brown, caving; sandstone gray-red, loose, quartz fld tuff grain, occasional c grain, brown shale structure, increasing c grain, red siltstone.	
OG	611	407	1336	5300	5400	100	1615	1646	-3964	-4064	-1208	-1239	3	LBF	?	

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OG	611	407	1336	5400	5500	100	1646	1676	-4064	-4164	-1239	-1269	3	LBF	Shale red-brown; sandstone red, loose, Predominantly light gray csg cmt in sample. siltstone light brown, mica; Shale red-brown. siltstone light brown, mica. sandstone red, mica tuffaceous. siltstone red, mica calcareous. Shale red-brown, cly, blocky soft. siltstone red mica. Assorted genl, Predominantly loose. Shale red-brown, cly, blocky; siltstone light red, mica.	
OG	611	407	1336	5500	5600	100	1676	1707	-4164	-4264	-1269	-1300	3	LBF	Shale red-brown, blocky. sandstone red, mica tuffaceous. Shale red-brown, caving. siltstone red, mica. sandstone red, mica, very tuf. siltstone red, very tuff, mica, rr green mnrl inclusioned. sandstone red, loose, c grain grnl & pebble caving. siltstone red, very tuffaceous, st calcareous mica, slaty vos?, sil?	
OG	611	407	1336	5600	5650	50	1707	1722	-4264	-4314	-1300	-1315	3	LBF	sandstone light red, very tuffaceous, slaty calcareous. Shale brown, blocky, caving. siltstone light gray-red, very tuffaceous, scattered c sand grain, calcareous mica silt, red sandstone structure, brown shale structure.	
OG	611	407	1336	5650	5700	50	1722	1737	-4314	-4364	-1315	-1330	3	LBF	sandstone light gray-red, tuf; Shale gray-brown. siltstone light to medium gray-red, very tuffaceous, mica. siltstone red-gray, slaty tuf.	
OG	611	407	1336	5700	5750	50	1737	1753	-4364	-4414	-1330	-1345	3	LBF	siltstone gray-red, very tuffaceous, mica. sandstone gray-red, very tuffaceous, mica, scattered c grain.	
OG	611	407	1336	5750	5800	50	1753	1768	-4414	-4464	-1345	-1361	3	LBF	slaty vos? , partly tuff, trace various mnrl grain & crystal. siltstone gray-red, mica calcareous. sandstone gray-red, tuf mica.	
OG	611	407	1336	5800	5900	100	1768	1798	-4464	-4564	-1361	-1391	3	LBF	sandstone gray-red, very tuffaceous, calcareous c quartz & tuff grain, mica partly tuff, very tuf.	
OG	611	407	1336	5900	5950	50	1798	1814	-4564	-4614	-1391	-1406	3	LBF	sandstone gray-red, very tuffaceous, brown shale structure, occasional c tuff grain, slaty calcareous, mica, occasional c quartz grain, occasional various mnrl grain & crystal, porous structure	
OG	611	407	1336	5950	6000	50	1814	1829	-4614	-4664	-1406	-1422	3	LBF	trace welded tuff pebble. siltstone gray-red, caving, mica. sandstone gray-red, very tuffaceous, occasional c tuff & quartz grain, trace tuff pebble.	
OG	611	407	1336	6000	6050	50	1829	1844	-4664	-4714	-1422	-1437	3	LBF	Tuff inclusioned. Tuff light la very-gray, mica & quartz crystal. sandstone gray-red, very tuffaceous, gray tuff structure, mica, occasional c quartz 7 tuff grain, slaty calcareous, slaty porous structure.	
OG	611	407	1336	6050	6100	50	1844	1859	-4714	-4764	-1437	-1452	3	LBF	sandstone gray-red, tuffaceous, caving, slaty calcareous, silt. sandstone gray-red. Mica, tuffaceous, scattered c quartz & tuff grain, trace	
OG	611	407	1336	6100	6150	50	1859	1875	-4764	-4814	-1452	-1467	3	LBF	pebble, slaty calcareous, very argillaceous	
OG	611	407	1336	6150	6200	50	1875	1890	-4814	-4864	-1467	-1483	3	LBF	Red . Tuff gray-red, trace mica & mnrl crystal, caving. sandstone red gray-red, tuffaceous, scattered c grain, slaty calcareous, very argillaceous. gray-red tuff structure, scattered quartz & mnrl crystal.	

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OG	611	407	1336	6200	6250	50	1890	1905	-4864	-4914	-1483	-1498	3	LBF	sandstone red, loose, quartz fld & tuff grain. abundant tuff grain, Predominantly very c grain, abundant pink clay.	
OG	611	407	1336	6250	6300	50	1905	1920	-4914	-4964	-1498	-1513	3	LBF	sandstone red, tuffaceous, mica, very argillaceous, slaty calcareous	
OG	611	407	1336	6300	6350	50	1920	1936	-4964	-5014	-1513	-1528	3	LBF	igneous rock medium to dark green-gray-basic. sandstone red, tuf mica; Shale brown-red, abundant pink clayey in sample. siltstone brown-red, very argillaceous, tuffaceous, light red tuff structure, slaty calcareous.	
OG	611	407	1336	6350	6400	50	1936	1951	-5014	-5064	-1528	-1544	3	LBF	sandstone red, very argillaceous, tuf; siltstone brown-red. sandstone red, very argillaceous & tuf. siltstone brown-red.	
OG	611	407	1336	6400	6450	50	1951	1966	-5064	-5114	-1544	-1559	3	LBF	igneous rock dark green-gray/dark recovered spec. sandstone red, tuf mica, very argillaceous & silty. siltstone medium to dark red; Shale dark red. siltstone medium to dark red, mica. Shale dark red, cly; siltstone medium to dark red, mica, very slaty calcareous	
OG	611	407	1336	6450	6500	50	1966	1981	-5114	-5164	-1559	-1574	3	LBF	sandstone red, loose, quartz fld & tuff grain. sandstone as above. siltstone dark to medium red, very argillaceous.	
OG	611	407	1336	6500	6550	50	1981	1996	-5164	-5214	-1574	-1589	3	LBF	sandstone medium to dark red, tuffaceous, very argillaceous, mica. siltstone medium to dark red, mica, dark red shale structure. sandstone medium to dark red, tuf mica.	
OG	611	407	1336	6550	6600	50	1996	2012	-5214	-5264	-1589	-1604	3	LBF	siltstone medium to dark red. sandstone medium to dark red, tuffaceous, occasional green mnrl spec. siltstone red. siltstone medium to dark red. sandstone medium to dark red, tuf mica.	
OG	611	407	1336	6600	6650	50	2012	2027	-5264	-5314	-1604	-1620	4	MT	siltstone medium to dark red, red tuff structure. Tuff very light red, mica, quartz mnrl. siltstone medium to dark red, mica. Tuff very light red, mica, quartz, mnrl. sandstone red, caving, tuf; siltstone red. Tuff very light red, mica, quartz, mnrl crystal dark red shale structure.	
OG	611	407	1336	6650	6700	50	2027	2042	-5314	-5364	-1620	-1635	4	MT	increasing quartz mica & miscellaneous mnrl crystal, partly welded, trace gl shared.	
OG	611	407	1336	6700	6750	50	2042	2057	-5364	-5414	-1635	-1650	4	MT	siltstone dark brown-red, very tuffaceous. Tuff very light red to medium red. siltstone dark brown-red, very argillaceous. Tuff very light red, mica quartz miscellaneous mnrl crystal.	
OG	611	407	1336	6750	6800	50	2057	2073	-5414	-5464	-1650	-1665	4	MT	sandstone very light red, very tuf; Tuff light to medium red. siltstone medium to dark red. sandstone medium to dark red, tuf mica, very argillaceous. Shale dark brown-red, blocky, tuf mica, caving, silica clay.	

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OG	611	407	1336	6800	6900	100	2073	2103	-5464	-5564	-1665	-1696	4	MT	scattered loose quartz & tuff sand grain. sandstone dark brown-red, very argillaceous & tuff caving, mica, occasional dark red shale & siltstone structure.	
OG	611	407	1336	6900	6950	50	2103	2118	-5564	-5614	-1696	-1711	4	MT	sandstone medium to dark red, caving, tuffaceous, very argillaceous, mica. siltstone dark brown-red, caving. sandstone medium to dark red, tuff mica. sandstone red, tuff mica.	
OG	611	407	1336	6950	7000	50	2118	2134	-5614	-5664	-1711	-1726	4	MT	become light red-gray, gray vesicular tuff structure. sandstone medium to dark red, very argillaceous, tuff mica.	
OG	611	407	1336	7000	7050	50	2134	2149	-5664	-5714	-1726	-1742	4	MT	Tuff light red-gray, trace mica, quartz dark gray mnrl crystal, partly welded.	
OG	611	407	1336	7050	7100	50	2149	2164	-5714	-5764	-1742	-1757	4	MT	caving, trace gl frag, rr vesicular. trace green mnrl spec.	
OG	611	407	1336	7100	7150	50	2164	2179	-5764	-5814	-1757	-1772	4	MT	Tuff light to medium red-gray light brown, mica quartz gl miscellaneous crystal & grain, slatey mottled green, trace vesicular, partly gl.	
OG	611	407	1336	7150	7200	50	2179	2195	-5814	-5864	-1772	-1787	4	MT	Very argillaceous, slatey welded.	
OG	611	407	1336	7200	7250	50	2195	2210	-5864	-5914	-1787	-1803	4	MT	sandy. sandstone light gray, loose, tuffaceous, quartz tuff grain. Tuff gray. Mica. Welded, partly gl. Tuff gray red-gray/occasional green spec, mica quartz gl. Miscellaneous mnrl crystal & grain, trace amphibole.	
OG	611	407	1336	7250	7300	50	2210	2225	-5914	-5964	-1803	-1818	4	MT	sandstone gray, loose, caving, very tuffaceous, quartz tuff fld grain grain, very argillaceous.	
OG	611	407	1336	7300	7350	50	2225	2240	-5964	-6014	-1818	-1833	4	MT	sandstone gray, loose, caving, tuff, quartz tuff grain. Tuff gray, quartz mica sandy. sandstone gray, loose, very tuff & argillaceous, tuff grain. Tuff gray, sandy, sandstone structure, quartz gl mica mnrl crystal & grain.	
OG	611	407	1336	7350	7400	50	2240	2256	-6014	-6064	-1833	-1848	4	MT	trace vesicular, occasional green spec. siltstone light green-gray, very mica. sandstone light gray, loose, tuffaceous, quartz fld & tuff grain.	
OG	611	407	1336	7400	7450	50	2256	2271	-6064	-6114	-1848	-1864	4	MT	Shale red-brown green, tuffaceous, tuff & siltstone structure. siltstone light brown light green, mica tuffaceous, tuff structure. sandstone light brown light gray, mica tuffaceous, tuff & siltstone structure, slatey calcareous; siltstone gray.	
OG	611	407	1336	7450	7500	50	2271	2286	-6114	-6164	-1864	-1879	4	MT	Tuff gray/green spec, green waxy shale structure. sandstone light gray-brown, tuff; Tuff gray. siltstone light brown-gray, very mica; sandstone light gray, loose, tuffaceous, quartz fld grain.	
OG	611	407	1336	7500	7550	50	2286	2301	-6164	-6214	-1879	-1894	4	MT	sandstone as above, abundant angular grain. Tuff light gray, sandy argillaceous; sandstone light gray, loose. Tuff light gray; siltstone light gray, mica. sandstone light gray, loose, tuffaceous, quartz fld & tuff grain, gray siltstone structure.	

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OG	611	407	1336	7550	7600	50	2301	2317	-6214	-6264	-1894	-1909	4	MT	Welded tuff structure. Tuff brown-gray; Shale brown- gray, tuff silica, slaty calcareous.	
OG	611	407	1336	7600	7650	50	2317	2332	-6264	-6314	-1909	-1925	4	MT	sandstone light to medium gray, loose, brown-gray siltstone structure, tuff, quartz fld & tuff grain. sandstone brown-gray, very tuffaceous, mica, quartz & fld grain.	
OG	611	407	1336	7650	7700	50	2332	2347	-6314	-6364	-1925	-1940	4	MT	siltstone brown-gray, mica. sandstone light gray, loose, tuffaceous, fld & tuff grain, quartz grain, slaty calcareous.	
OG	611	407	1336	7700	7750	50	2347	2362	-6364	-6414	-1940	-1955	4	MT	Shale red-brown. sandstone gray, loose, vcol grain, Predominantly tuff grain, scattered fld igneous quartz grain, scattered c grain. siltstone brown-gray. Shale gray-brown green, very mica.	
OG	611	407	1336	7750	7800	50	2362	2377	-6414	-6464	-1955	-1970	4	MT	sandstone gray, loose, vcol grain, Predominantly tuff & igneous grain, fld quartz grain, scattered c grain, very argillaceous & tuffaceous, possibly brown limestone grain. siltstone brown, mica. sandstone gray, loose, abundant tuff grain, fld quartz grain, siltstone structure, tuf.	
OG	611	407	1336	7800	7900	100	2377	2408	-6464	-6564	-1970	-2001	4	MT	limestone light to dark brown, very siliceous, trace fractured. siltstone bentonite-gray. sandstone light to medium gray, loose, tuffaceous, fld tuff quartz grain. siltstone gray. sandstone light to medium gray, loose, tuffaceous, fld tuff quartz grain.	
OG	611	407	1336	7900	8000	100	2408	2438	-6564	-6664	-2001	-2031	4	MT	sandstone gray, loose, Predominantly tuff igneous grain, vcol grain, fld quartz grain. Tuff brown-gray gray, quartz mica miscellaneous mnrl crystal, sandy. sandstone gray, loose, tuff quartz fld igneous grain, vcol grain.	
OG	611	407	1336	8000	8100	100	2438	2469	-6664	-6764	-2031	-2062	4	MT	Tuff gray slaty mottled green, quartz & mnrl crystal, mica flk, slaty vesicular. sandstone gray, loose, caving, tuffaceous, tuff grain. Tuff gray brown, quartz mica fld & miscellaneous mnrl crystal, slate sandy & calcareous. sandstone light gray, loose, tuffaceous, quartz fld tuff grain, slaty calcareous, caving. Tuff gray brown slaty mottled green, quartz fld mica & miscellaneous mnrl crystal & grain, sandy, slaty calcareous, occasional vesicular, Predominantly welded.	
OG	611	407	1336	8100	8200	100	2469	2499	-6764	-6864	-2062	-2092	4	MT	Tuff red-brown to gray-red, argillaceous, trace mica & mnrl crystal. White light red calcareous inclusion & possibly veined. Shale dark brown-red, tuffaceous, blocky, tuff.	
OG	611	407	1336	8200	8300	100	2499	2530	-6864	-6964	-2092	-2123	4	MT	Tuff light gray-brown gray, partly welded, mica&miscellaneous mnrl phenocrsts,scattered calcareous & argillaceous inclusion.	

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OG	611	407	1336	8300	8350	50	2530	2545	-6964	-7014	-2123	-2138	4	MT	Tuff brown-gray gray, partly welded, mica fld quartz & miscellaneous mnrl phenocrysts, very calcareous.	
OG	611	407	1336	8350	8400	50	2545	2560	-7014	-7064	-2138	-2153	4	MT	sandy & argillaceous, trace vesicules	
OG	611	407	1336	8400	8450	50	2560	2576	-7064	-7114	-2153	-2168	4	MT	tuff brown-gray gray, partly welded mica fld quartz & miscellaneous mnrl phenocrysts, very slaty calcareous, trace vesicular, argillaceous.	
OG	611	407	1336	8450	8500	50	2576	2591	-7114	-7164	-2168	-2184	4	MT	sandy silty argillaceous.	
OG	611	407	1336	8500	8550	50	2591	2606	-7164	-7214	-2184	-2199	4	MT	tuff brown-gray gray, partly welded mica fld quartz & miscellaneous mnrl phenocrysts, scattered calcareous inclusion, sandy, trace vesicular & mnrl cavity.	
OG	611	407	1336	8550	8600	50	2606	2621	-7214	-7264	-2199	-2214	4	MT	trace pebble-sz phenocryst. Tuff green-gray gray, trace mica, partly welded, fld quartz & miscellaneous mnrl phenocryst, occasional calcareous inclusion, rr pyrite, slaty sandy.	
OG	611	407	1336	8600	8700	100	2621	2652	-7264	-7364	-2214	-2245	4	MT	Green-gray brown-gray, trace white calcareous crystal vein, scattered green mnrl spec. trace vesicular & mnrl cavity. Rr pyrite.	
OG	611	407	1336	8700	8750	50	2652	2667	-7364	-7414	-2245	-2260	4	MT	Tuff green-gray, scattered green mnrl spec, fld mica quartz & miscellaneous mnrl grain, scattered calcareous inclusion & crystal, partly welded.	
OG	611	407	1336	8750	8800	50	2667	2682	-7414	-7464	-2260	-2275	4	MT	Tuff gray brown-gray, Predominantly welded mica fld quartz miscellaneous mnrl phenocryst, trace white calcareous crystal. slaty sandy.	
OG	611	407	1336	8800	8850	50	2682	2698	-7464	-7514	-2275	-2290	4	MT	tuff gray green-gray brown-gray, occasional green mnrl spec, occasional brecciated, slaty calcareous, mica fld & miscellaneous mnrl crystal & grain, partly welded.	
OG	611	407	1336	8850	8900	50	2698	2713	-7514	-7564	-2290	-2306	4	MT	Welded. Predominantly welded. trace white calcareous crystal.	
OG	611	407	1336	8900	8950	50	2713	2728	-7564	-7614	-2306	-2321	4	MT	Tuff gray green-gray, scattered green mnrl spec, fld, miscellaneous mnrl phenocryst, trace mica, scattered calcareous inclusion, Predominantly welded	
OG	611	407	1336	8950	9000	50	2728	2743	-7614	-7664	-2321	-2336	4	MT	Part welded, trace vesicular 7 mnrl cavity. sandy, Predominantly loose in sample.	
OG	611	407	1336	9000	9050	50	2743	2758	-7664	-7714	-2336	-2351	4	MT	Tuff gray green-gray brown-gray, sandy, sand grain loose, light mica, miscellaneous phenocryst, partly welded, scattered green mnrl & calcareous inclusion.	
OG	611	407	1336	9050	9100	50	2758	2774	-7714	-7764	-2351	-2366	4	MT	Tuff gray-brown gray, scattered green mnrl inclusion, fld quartz mica miscellaneous mnrl phenocryst, slaty calcareous, become sandy, sand grain Predominantly loose.	
OG	611	407	1336	9100	9200	100	2774	2804	-7764	-7864	-2366	-2397	4	MT	igneous rock gray mottled green & brown, abundant phenocryst, probably olvn fld amphibole, trace musc, calcareous, scattered white calcareous crystal.	
OG	611	407	1336	9200	9250	50	2804	2819	-7864	-7914	-2397	-2412	4	MT	igneous rock gray mottled green brown, probably olvn fld amphibole calcareous phenocryst, calcareous, scattered green spec.	

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OG	611	407	1336	9250	9300	50	2819	2835	-7914	-7964	-2412	-2427	4	MT	trace hornbd?	
OG	611	407	1336	9300	9400	100	2835	2865	-7964	-8064	-2427	-2458	4	MT	igneous rock gray slatey mottled green, probably olvn fld calcareous phenocryst, calcareous, caving.	
OG	611	407	1336	9400	9450	50	2865	2880	-8064	-8114	-2458	-2473	4	MT	igneous rock gray, probably fld phenocryst, slatey calcareous. igneous rock light to medium gray/dark brown & dark gray phenocryst, calcareous.	
OG	611	407	1336	9450	9500	50	2880	2896	-8114	-8164	-2473	-2488	4	MT	igneous rock gray-green gray, trace phenocryst. igneous rock dark red green gray, phenocryst. igneous rock light to medium gray/dark red-brown phenocryst slatey calcareous, trace white calcareous vein, trace olvn?, trace yellow.	
OG	611	407	1336	9500	9550	50	2896	2911	-8164	-8214	-2488	-2504	4	MT	Mica, very s dark gray spec common.	
OG	611	407	1336	9550	9600	50	2911	2926	-8214	-8264	-2504	-2519	4	MT	gray trace dark red-brown phenocryst, increasing olvn? Gn-gray occasional olvn? & dark red-brown phenocryst.	
OG	611	407	1336	9600	9650	50	2926	2941	-8264	-8314	-2519	-2534	4	MT	igneous rock green-gray, very s dark gray spec common, scattered olvn? & dark red-brown phenocryst, trace calcareous crystal & vein, trace possibly fragmental, rr brown mica.	
OG	611	407	1336	9650	9700	50	2941	2957	-8314	-8364	-2534	-2549	4	MT	White calcareous vein possibly in fractured. igneous ock medium to dark brown-gray occasional Creamy calcareous phenocryst & vein, very s dark brown spec common, trace fractured, slatey calcareous.	
OG	611	407	1336	9700	9750	50	2957	2972	-8364	-8414	-2549	-2565	4	MT	igneous rock brown-gray green-gray gray, occasional Creamy calcareous & miscellaneous phenocryst, slatey calcareous. Predominantly brown-gray. Predominantly green-gray, Creamy calcareous vein, very s dark gray spec common, trace olvn?	
OG	611	407	1336	9750	9800	50	2972	2987	-8414	-8464	-2565	-2580	4	MT	brown-gray green-gray mottled crm, calcareous, increasing calcareous phenocryst, scattered fractured, abundant dark brown-red. igneous rock, slatey mottled dark green.	
OG	611	407	1336	9800	9850	50	2987	3002	-8464	-8514	-2580	-2595	4	MT	igneous rock medium to dark red-gray green-gray dark brown-red slatey mottled cream. trace Creamy calcareous & miscellaneous mnrl phenocryst, trace fractured & calcareous vein, slatey calcareous trace possibly sks.	
OG	611	407	1336	9850	9900	50	3002	3018	-8514	-8564	-2595	-2610	4	MT	trace phenocryst. igneous rock green-gray, n calcareous, very s dark gray spec common, trace sks, trace miscellaneous phenocryst, partly frl, possibly altered sltst	
OG	611	407	1336	9900	9950	50	3018	3033	-8564	-8614	-2610	-2626	4	MT	igneous rock green-gray light green-gray, trace sks, partly frl, possibly partly metamorphic sltst, scattered slt-sz magnt grain, trace mica.	

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OG	611	407	1336	9950	10000	50	3033	3048	-8614	-8664	-2626	-2641	4	MT	Green-gray red-gray, trace calcareous & miscellaneous phenocryst become hard & n fri, trace fractured, trace white quartz vein, slaty calcareous. igneous rock medium to dark green-gray dark brown-red, trace sks, trace Creamy calcareous & miscellaneous phenocryst, slaty calcareous, dark red-brown dark gray spec common, trace fault gouge.	
OG	611	407	1336	10000	10100	100	3048	3079	-8664	-8764	-2641	-2671	4	MT	sandstone light gray, loose, probably grnt, w, quartz fld grnl & pebble, mica, quartz fld igneous grain, igneous grnl. Conglomerate light to medium gray, loose quartz fld igneous grnl, scattered pebble, very mica, very sandy argillaceous, slaty calcareous.	
OG	611	407	1336	10100	10150	50	3079	3094	-8764	-8814	-2671	-2687	4	MT	sandstone light gray, loose, grnl, slaty calcareous. Cgt light to medium gray, loose grnl occasional pebble, very sandy argillaceous, slaty calcareous very mica, grnt w.(?)	grnt.w? likely "granite wash"
OG	611	407	1336	10150	10200	50	3094	3109	-8814	-8864	-2687	-2702	4	MT	sandstone light to medium gray. loose, caving, grnl & pebble, mica slaty calcareous, quartz igneous fld grain, grnt,w? Conglomerate gray, loose, igneous quartz fld pebble & grnl, very sandy argillaceous, slaty calcareous mica, occasional grnt pebble, grnt.w?	
OG	611	407	1336	10200	10300	100	3109	3139	-8864	-8964	-2702	-2732	4	MT	sandstone light to medium gray, loose, grnl & pebble, slaty calcareous mica. fld quartz igneous grain, grnt. W? trace pink grnt pebble.	
OG	611	407	1336	10300	10350	50	3139	3155	-8964	-9014	-2732	-2748	4	MT	sandstone light to medium gray, loose, grnl & pebble, mica, slaty calcareous, fld quartz igneous grain, grnt. W?	
OG	611	407	1336	10350	10400	50	3155	3170	-9014	-9064	-2748	-2763	4	MT	Conglomerate gray, loose, pebble & grnl, sandy argillaceous slaty calcareous, grnt pebble. increasing grnt pebble, grnt. W?	
OG	611	407	1336	10400	10450	50	3170	3185	-9064	-9114	-2763	-2778	4	MT	Cvg?, very sandy, trace sandstone & metamorphic pebble. slaty sandy.	
OG	611	407	1336	10450	10454	4	3185	3186	-9114	-9118	-2778	-2779	4	MT	igneous rock very light red light gray, Predominantly loose grain, grnt, quartz fld mica.	
OG	7-24	395	1297	0	2	2	0	1	1297	1295	395	395	1	VF	Silty sand	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	2	20	18	1	6	1295	1277	395	389	1	VF	Silty sand	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	20	70	50	6	21	1277	1227	389	374	1	VF	Sandy silt	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	70	160	90	21	49	1227	1137	374	347	1	VF	Sandy silt and clay	Abbreviated description. See OG log for details [BFG]

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OG	7-24	395	1297	160	290	130	49	88	1137	1007	347	307	2	UBF	Clayey silt	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	290	695	405	88	212	1007	602	307	184	2	UBF	Silty clay: reddish brown to brown, soft to firm clay and silt with sporadic lenses of loose, ill sorted, subangular to subrounded, fine sand to coarse quartzose sand and granitic pebble to cobble gravel. Local cross-bedding dips to 30 degrees. Sporadic calcium carbonate cemented zones. [Sand, gravel, clay and ash beds noted in logs]	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	695	770	75	212	235	602	527	184	161	2	UBF	Silty sand: light brown to brown thinly laminated silt with thin senses of granitic and volcanic gravel to 1 inch. Weak to moderate reaction to acid. Apparent average specific gravity of 2.03.	Abbreviated description. See OG log for details [BFG]
OG	7-24	395	1297	770	910	140	235	277	527	387	161	118	2	UBF	Silty to clayey sand: brown with minor black MnO2 speckling and sporadic thin grayish zones, loose to soft, locally firm to hard. Ill sorted, fine to medium subangular to subrounded quartzose sand with traces of feldspar, biotite, and magnetite. Thinly laminated silt and clay interbeds locally display weak partings and cross bedding with apparent dips to 15 degrees. Scattered root holes noted 890 to 900 ft. Weak to moderate reaction to acid. Apparent average specific gravity of 2.12.	
OG	7-24	395	1297	910	1140	230	277	347	387	157	118	48	2	UBF	Clayey silt to silty clay: brown to reddish brown with minor black MnO2 speckling to 1000 ft and sporadic thin grayish brown zones. Soft to firm to locally hard, thinly laminated, interbedded silt and clay locally display weak partings and cross bedding with apparent dips to 30 degrees, and sporadic think lenses of ill sorted, fine to medium, subangular to subrounded quartzose sand. Traces of feldspar, biotite, and magnetite. Moderate reaction to acid. Apparent average specific gravity of 2.09.	
OG	7-24	395	1297	1140	1480	340	347	451	157	-183	48	-56	2	UBF	Silty clay: reddish brown with occasional grayish brown lenses, soft to firm to locally hard. Predominantly thinly laminated clay, which locally displays weak partings and apparent dips to 5 degrees, with thin interbeds of silt and fine quartzose sand with traces of feldspar, biotite, muscovite an magnetite. Weak to moderate reaction to acid. Apparent average specific gravity 2.09. Volcanic ash noted between 1141-1142 ft, 1349 to 1350 ft.	
OG	7-24	395	1297	1480	1590	110	451	485	-183	-293	-56	-89	2	UBF	Silty clay: reddish brown, firm with scattered local soft zones. Predominantly thinly laminated clay, which locally displays weak partings and apparent dips to 5 degrees, with thin interbeds of silt and fine quartzose sand with traces of muscovite and magnetite. Moderate reaction to acid , salty taste develops a white coating upon drying. Apparent average specific gravity 2.11.	

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OG	7-24	395	1297	1590	1940	350	485	591	-293	-643	-89	-196	3	LBF	Silty clay: reddish brown with grayish brown lenses, bluish gray zones below 1796', firm to hard, locally soft. Predominantly thinly laminated clay, which local displays well developed partings and apparent dips to 15 degrees, with thin interbeds of micaceous silt and fine quartzose sand. Interbedded crystalline gypsum and anhydrite are prominent 1595 to 1660 ft and 1835 to 1885 ft and disseminated gypsum crystals to 1/8 inch diameter noted below 1640 ft depth. Variable reaction to acid, strong salty taste, crystalline halite not apparent, develops a white coating upon drying. Apparent specific gravity 2.12.	
OG	11-01	454	1490	0	170	170	0	52	1490	1320	454	402	1	VF	silty sand and gravel	See OG files for detailed log
OG	11-01	454	1490	170	252	82	52	77	1320	1238	402	377	2	UBF	silty sand	
OG	11-01	454	1490	252	450	198	77	137	1238	1040	377	317	2	UBF	silty sand	
OG	11-01	454	1490	450	702	252	137	214	1040	788	317	240	3	LBF	(as above)	interval inserted. MAU/LAU pick determined from cross-section BB' (Gootee and Young, 2008).
OG	11-01	454	1490	702	805	103	214	245	788	685	240	209	3	LBF	silty sand	
OG	11-01	454	1490	805	992	187	245	302	685	498	209	152	3	LBF	silty sand	
OG	11-01	454	1490	992	1100	108	302	335	498	390	152	119	3	LBF	sand	
OG	11-01	454	1490	1100	1295	195	335	395	390	195	119	60	3	LBF	sand and gravel	
OG	11-01	454	1490	1295	1360	65	395	415	195	130	60	40	3	LBF	silty sand	
OG	11-01	454	1490	1360	1430	70	415	436	130	60	40	18	3	LBF	sand and gravel	
OG	11-01	454	1490	1430	1580	150	436	482	60	-90	18	-27	3	LBF	silty sand	
OG	11-01	454	1490	1580	1929	349	482	588	-90	-439	-27	-134	3	LBF	sand and gravel	
SG	12	479	1570	0	220	220	0	67	1570	1350	479	411	1	VF	Recovered wash sample of mostly red and gray, angular to subrounded, volcanic and granitic gravel and some brown sand.	Lithology summarized from cuttings only. Twenty-one (21) cored intervals from 150 to 1,810 ft found in Gootee and Young, 2008.
SG	12	479	1570	220	650	430	67	198	1350	920	411	280	2	UBF	Recovered wash sample of mostly fines in the form of pieces of silt or siltstone that did not completely separate in the washing process. Also recovered some angular to subrounded sand and gravel of granitic, metamorphic, an volcanic origin.	
SG	12	479	1570	650	900	250	198	274	920	670	280	204	3	LBF	Same as above.	MAU/LAU pick based on cross-sections AA', BB' and DD' (Gootee and Young, 2008).
SG	12	479	1570	900	1914	1014	274	583	670	-344	204	-105	3	LBF	Recovered wash sample of mostly sand, with some fines and gravel fractions. Overall color is brown. Sand and gravel is subangular to subrounded, and of granitic, metamorphic, and volcanic origin.	
SG	12	479	1570	1914	1945	31	583	593	-344	-375	-105	-114	3	LBF	Recovered wash sample of black, dense, finely crystalline basalt. No major amount of alteration.	
SG	12	479	1570	1945	1995	50	593	608	-375	-425	-114	-130	3	LBF	Recovered wash sample of mostly sand, with some fines and gravel fractions. Overall color is brown. Sand and gravel is subangular to subrounded, and of granitic, metamorphic, and volcanic origin.	