

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)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
OG	15	507	1665	0	140	0	43	1665	1525	507	465	43	1	UBF	1	PC	surface sand	in depth descriptions in report
OG	15	507	1665	140	313	43	95	1525	1352	465	412	53	1	UBF	1	PC	water sand	
OG	15	507	1665	313	376	95	115	1352	1289	412	393	19	1	UBF	1	PC	red beds	
OG	15	507	1665	376	402	115	123	1289	1263	393	385	8	1	UBF	1	PC	red beds	
OG	15	507	1665	402	524	123	160	1263	1141	385	348	37	1	UBF	1	PC	sand and gravel	
OG	15	507	1665	524	610	160	186	1141	1055	348	322	26	1	UBF	1	PC	sand and gravel	
OG	15	507	1665	610	761	186	232	1055	904	322	276	46	1	UBF	1	PC	sand and gravel	
OG	15	507	1665	761	785	232	239	904	880	276	268	7	1	UBF	1	PC	red beds	
OG	15	507	1665	785	795	239	242	880	870	268	265	3	1	UBF	1	PC	gravel	
OG	15	507	1665	795	925	242	282	870	740	265	226	40	1	UBF	1	PC	sand and gravel	
OG	15	507	1665	925	946	282	288	740	719	226	219	6	1	UBF	1	PC	sandy lime, streaks of andesite	
OG	15	507	1665	946	1115	288	340	719	550	219	168	52	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1115	1263	340	385	550	402	168	123	45	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1263	1297	385	395	402	368	123	112	10	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1297	1323	395	403	368	342	112	104	8	1	UBF	2	PF	sand	
OG	15	507	1665	1323	1378	403	420	342	287	104	87	17	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1378	1433	420	437	287	232	87	71	17	1	UBF	4	EVAP	sand and lime	
OG	15	507	1665	1433	1520	437	463	232	145	71	44	27	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1520	1674	463	510	145	-9	44	-3	47	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1674	1878	510	572	-9	-213	-3	-65	62	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1878	1948	572	594	-213	-283	-65	-86	21	1	UBF	2	PF	sand and shale	
OG	15	507	1665	1948	1995	594	608	-283	-330	-86	-101	14	1	UBF	2	PF	sand and shale	Formation pick determined on lithology change and approx. stratigraphic horizon to contact in 35-20198.
OG	15	507	1665	1995	2005	608	611	-330	-340	-101	-104	3	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2005	2050	611	625	-340	-385	-104	-117	14	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2050	2115	625	645	-385	-450	-117	-137	20	2	LBF	1	PC	medium to very coarse grained loosely consolidated sandstone	
OG	15	507	1665	2115	2135	645	651	-450	-470	-137	-143	6	2	LBF	1	PC	very coarse grain loosely consolidated sandstone	
OG	15	507	1665	2135	2155	651	657	-470	-490	-143	-149	6	2	LBF	1	PC	fine to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2155	2160	657	658	-490	-495	-149	-151	2	2	LBF	1	PC	fine to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2160	2180	658	664	-495	-515	-151	-157	6	2	LBF	1	PC	fine to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2180	2275	664	693	-515	-610	-157	-186	29	2	LBF	1	PC	fine to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2275	2325	693	709	-610	-660	-186	-201	15	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2325	2375	709	724	-660	-710	-201	-216	15	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	2375	2550	724	777	-710	-885	-216	-270	53	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2550	2660	777	811	-885	-995	-270	-303	34	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	2660	2665	811	812	-995	-1000	-303	-305	2	2	LBF	1	PC	fairly consolidated coarse grained sandstone with light green serpentine	
OG	15	507	1665	2665	2670	812	814	-1000	-1005	-305	-306	2	2	LBF	1	PC	fairly consolidated coarse grained sandstone with light green serpentine	
OG	15	507	1665	2670	2765	814	843	-1005	-1100	-306	-335	29	2	LBF	1	PC	fine to medium grained loosely consolidated sandstone	
OG	15	507	1665	2765	2835	843	864	-1100	-1170	-335	-357	21	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	2835	2855	864	870	-1170	-1190	-357	-363	6	2	LBF	1	PC	medium grained loosely consolidated sandstone	
OG	15	507	1665	2855	2860	870	872	-1190	-1195	-363	-364	2	2	LBF	1	PC	coarse to very coarse grained loosely consolidated SS	
OG	15	507	1665	2860	2880	872	878	-1195	-1215	-364	-370	6	2	LBF	1	PC	coarse to very coarse grained loosely consolidated SS	
OG	15	507	1665	2880	2925	878	892	-1215	-1260	-370	-384	14	2	LBF	1	PC	coarse to very coarse grained loosely consolidated SS	
OG	15	507	1665	2925	3015	892	919	-1260	-1350	-384	-411	27	2	LBF	1	PC	medium to very coarse grained loosely consolidated sandstone	
OG	15	507	1665	3015	3040	919	927	-1350	-1375	-411	-419	8	2	LBF	1	PC	coarse grained sandstone	
OG	15	507	1665	3040	3070	927	936	-1375	-1405	-419	-428	9	2	LBF	1	PC	coarse grained loosely consolidated sandstone	

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OG	15	507	1665	3070	3090	936	942	-1405	-1425	-428	-434	6	2	LBF	1	PC	fine to medium grained loosely consolidated sandstone	
OG	15	507	1665	3090	3125	942	953	-1425	-1460	-434	-445	11	2	LBF	1	PC	loosely consolidated SS	
OG	15	507	1665	3125	3165	953	965	-1460	-1500	-445	-457	12	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	3165	3180	965	969	-1500	-1515	-457	-462	5	2	LBF	1	PC	med to coarse grained loosely consolidated sandstone	
OG	15	507	1665	3180	3195	969	974	-1515	-1530	-462	-466	5	2	LBF	1	PC	medium to coarse grained sandstone	
OG	15	507	1665	3195	3205	974	977	-1530	-1540	-466	-469	3	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	3205	3220	977	981	-1540	-1555	-469	-474	5	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	3220	3260	981	994	-1555	-1595	-474	-486	12	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	3260	3275	994	998	-1595	-1610	-486	-491	5	2	LBF	1	PC	coarse grained loosely consolidated sandstone	
OG	15	507	1665	3275	3290	998	1003	-1610	-1625	-491	-495	5	2	LBF	1	PC	10% medium to coarse grained SS	
OG	15	507	1665	3290	3310	1003	1009	-1625	-1645	-495	-501	6	2	LBF	1	PC	medium to coarse grained loosely consolidated sandstone	
OG	15	507	1665	3310	3355	1009	1023	-1645	-1690	-501	-515	14	2	LBF	9	LAVA	talus breccia mostly of diorite	Breccia may possibly correlate with thick basalt sequence at Florence gap in SG well 23 (Gootee, 2013)
OG	15	507	1665	3355	3385	1023	1032	-1690	-1720	-515	-524	9	2	LBF	9	LAVA	diorite breccia, loosely consolidated	
OG	15	507	1665	3385	3390	1032	1033	-1720	-1725	-524	-526	2	2	LBF	9	LAVA	siltstone, slightly calcareous	
OG	15	507	1665	3390	3395	1033	1035	-1725	-1730	-526	-527	2	2	LBF	9	LAVA	talus breccia mostly of diorite, loosely consolidated and shale	
OG	15	507	1665	3395	3405	1035	1038	-1730	-1740	-527	-530	3	2	LBF	9	LAVA	talus breccia of diorite, loosely consolidated	
OG	15	507	1665	3405	3430	1038	1045	-1740	-1765	-530	-538	8	2	LBF	9	LAVA	diorite breccia, medium to coarse grained	
OG	15	507	1665	3430	3455	1045	1053	-1765	-1790	-538	-546	8	2	LBF	9	LAVA	altered feldspar with mica and pyrite, loosely consolidated	
OG	15	507	1665	3455	3460	1053	1055	-1790	-1795	-546	-547	2	2	LBF	9	LAVA	talus breccia, medium to coarse grained, loosely consolidated	
OG	15	507	1665	3460	3510	1055	1070	-1795	-1845	-547	-562	15	2	LBF	9	LAVA	talus breccia of diorite, loosely consolidated	
OG	15	507	1665	3510	3535	1070	1077	-1845	-1870	-562	-570	8	2	LBF	9	LAVA	diorite breccia, medium to coarse grained, loosely consolidated	
OG	15	507	1665	3535	3575	1077	1090	-1870	-1910	-570	-582	12	2	LBF	9	LAVA	diorite breccia, medium to coarse grained	
OG	15	507	1665	3575	3735	1090	1138	-1910	-2070	-582	-631	49	2	LBF	9	LAVA	diorite breccia, medium to coarse grained	
OG	15	507	1665	3735	4125	1138	1257	-2070	-2460	-631	-750	119	2	LBF	9	LAVA	diorite breccia, medium to coarse grained, loosely consolidated	
OG	15	507	1665	4125	4205	1257	1282	-2460	-2540	-750	-774	24	2	LBF	9	LAVA	quartz diorite breccia	
OG	15	507	1665	4205	4225	1282	1288	-2540	-2560	-774	-780	6	2	LBF	9	LAVA	breccia	
OG	15	507	1665	4225	4615	1288	1407	-2560	-2950	-780	-899	119	2	LBF	9	LAVA	diorite breccia	
OG	15	507	1665	4615	4635	1407	1413	-2950	-2970	-899	-905	6	2	LBF	9	LAVA	seyenite breccia	
OG	15	507	1665	4635	4955	1413	1510	-2970	-3290	-905	-1003	98	2	LBF	9	LAVA	diorite breccia	
OG	15	507	1665	4955	4960	1510	1512	-3290	-3295	-1003	-1004	2	2	LBF	9	LAVA	shale 90%, diorite breccia 10%	
OG	15	507	1665	4960	4965	1512	1513	-3295	-3300	-1004	-1006	2	2	LBF	9	LAVA	diorite breccia	
OG	15	507	1665	4965	5125	1513	1562	-3300	-3460	-1006	-1055	49	2	LBF	9	LAVA	diorite breccia	
OG	15	507	1665	5125	5130	1562	1564	-3460	-3465	-1055	-1056	2	2	LBF	9	LAVA	granodiorite breccia	
OG	15	507	1665	5130	5142	1564	1567	-3465	-3477	-1056	-1060	4	2	LBF	9	LAVA	diorite breccia	
OG	583	482	1580	0	30	0	9	1580	1550	482	472	9	1	UBF	1	PC	surface deposits	
OG	583	482	1580	30	355	9	108	1550	1225	472	373	99	1	UBF	1	PC	gravel, some sand and silt	
OG	583	482	1580	355	665	108	203	1225	915	373	279	94	1	UBF	1	PC	sand, some silt and claystone	
OG	583	482	1580	665	1850	203	564	915	-270	279	-82	361	1	UBF	4	EVAP	claystone and siltstone with gypsum blebs	
OG	583	482	1580	1850	1940	564	591	-270	-360	-82	-110	27	2	LBF	2	PF	claystone and siltstone, some sand	
OG	583	482	1580	1940	1996	591	608	-360	-416	-110	-127	17	2	LBF	1	PC	sand	
OG	583	482	1580	1996	2025	608	617	-416	-445	-127	-136	9	2	LBF	3	C	claystone	
OG	583	482	1580	2025	2145	617	654	-445	-565	-136	-172	37	2	LBF	2	PF	siltstone, some claystone	
OG	583	482	1580	2145	2190	654	668	-565	-610	-172	-186	14	2	LBF	11	U	no sample	
OG	583	482	1580	2190	2205	668	672	-610	-625	-186	-191	5	2	LBF	4	EVAP	possible salt (from geophysical logs and fluid)	
OG	583	482	1580	2205	2360	672	719	-625	-780	-191	-238	47	2	LBF	4	EVAP	claystone, limy, nodules of limestone and anhydrite	
OG	583	482	1580	2360	2720	719	829	-780	-1140	-238	-347	110	2	LBF	4	EVAP	impure anhydrite interbedded with siltstone and claystone	

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OG	583	482	1580	2720	4300	829	1311	-1140	-2720	-347	-829	482	2	LBF	7	ANHY	mostly anhydrite, some interbeds of claystone and siltstone, some limestone nodules	
OG	583	482	1580	4300	4650	1311	1417	-2720	-3070	-829	-936	107	2	LBF	7	ANHY	massive anhydrite, traces of claystone and siltstone	
OG	583	482	1580	4650	5700	1417	1737	-3070	-4120	-936	-1256	320	2	LBF	7	ANHY	anhydrite, several salt layers 5'-40' thick between 4720'-4970'. Thin claystone beds	
OG	583	482	1580	5700	7320	1737	2231	-4120	-5740	-1256	-1750	494	2	LBF	7	ANHY	anhydrite, thin layers of claystone and tuffaceous shale	
OG	583	482	1580	7320	7640	2231	2329	-5740	-6060	-1750	-1847	98	2	LBF	7	ANHY	anhydrite, tuff, tuffaceous shale, limestone nodules and siltstone	
OG	583	482	1580	7640	7985	2329	2434	-6060	-6405	-1847	-1952	105	2	LBF	7	ANHY	anhydrite, interbeds of tuffaceous shale. Laminae of limestone, some pyrite	Reported K-rich volcanics from 2341-2345 m in Reynolds et al.. Age 15.10 +/- 0.34 Ma. Should represent Tv section below.
OG	583	482	1580	7985	8266	2434	2520	-6405	-6686	-1952	-2038	86	2	LBF	7	ANHY	anhydrite as above, with some red-brown shale	Base of evaporite section 8266'
OG	583	482	1580	8266	8380	2520	2554	-6686	-6800	-2038	-2073	35	2	LBF	2	PF	sand, shaley siltstone	
OG	583	482	1580	8380	9058	2554	2761	-6800	-7478	-2073	-2279	207	3	TS	1	PC	conglomerate, some sand and silt w/ pebbles of metamorphic and volcanics	
OG	583	482	1580	9058	9385	2761	2861	-7478	-7805	-2279	-2379	100	4	TV	9	LAVA	volcanic flow (andesite or basalt)	Reported K/Ar date of 14.9 +/- 0.3 from trachyte at 9262 m (Reynolds et al., 1986)
OG	583	482	1580	9385	9677	2861	2950	-7805	-8097	-2379	-2468	89	4	TV	9	LAVA	volcanic flow, basaltic andesite	Reported to be 17.4 +/- 1.0 Ma (K/Ar) (Reynolds et al., 1986)
OG	583	482	1580	9677	9725	2950	2964	-8097	-8145	-2468	-2483	15	3	TS	1	PC	tuffaceous conglomerate and sandy tuff	
OG	583	482	1580	9725	9874	2964	3010	-8145	-8294	-2483	-2528	45	2	LBF	2	PF	claystone-siltstone interbeds, tuffaceous? Grading to very coarse sand and conglomerate at base	
OG	583	482	1580	9874	10179	3010	3103	-8294	-8599	-2528	-2621	93	5	B	10	B	metamorphics- gneiss, schist (bedrock)	Dated 1,248 Ma (Reynolds et al., 1986). Cooling age of 25.7 Ma.
OG	622	460	1509	0	900	0	274	1509	609	460	186	274	1	UBF	11	U	alluvium	
OG	622	460	1509	900	980	274	299	609	529	186	161	24	1	UBF	2	PF	clay with poorly sorted conglomerate	
OG	622	460	1509	980	1100	299	335	529	409	161	125	37	1	UBF	3	C	clay light brown	
OG	622	460	1509	1100	1400	335	427	409	109	125	33	91	1	UBF	4	EVAP	clay light brown with scattered gypsum inclusions and stringers	
OG	622	460	1509	1400	1640	427	500	109	-131	33	-40	73	1	UBF	4	EVAP	claystone pink to light brown with inclusions of gypsum and anhydrite	
OG	622	460	1509	1640	2943	500	897	-131	-1434	-40	-437	397	2	LBF	6	HAL	salt	
OG	622	460	1509	2943	3192	897	973	-1434	-1683	-437	-513	76	2	LBF	7	ANHY	anhydrite	
OG	622	460	1509	3192	5861	973	1786	-1683	-4352	-513	-1327	814	2	LBF	2	PF	clay and sand	
OG	622	460	1509	5861	7177	1786	2188	-4352	-5668	-1327	-1728	401	3	TS	1	PC	fanglomerate	Unit uncertain
OG	622	460	1509	7177	8024	2188	2446	-5668	-6515	-1728	-1986	258	5	B	10	B	Pre-Cambrian metamorphics	
OG	923	472	1549	0	50	0	15	1549	1499	472	457	15	1	UBF	11	U	no sample	
OG	923	472	1549	50	120	15	37	1499	1429	457	436	21	1	UBF	1	PC	gravely silty sand with caliche	
OG	923	472	1549	120	250	37	76	1429	1299	436	396	40	1	UBF	1	PC	sand with minor silt and gravel	
OG	923	472	1549	250	340	76	104	1299	1209	396	369	27	1	UBF	1	PC	silty sand	
OG	923	472	1549	340	430	104	131	1209	1119	369	341	27	1	UBF	1	PC	gravely silty sand with clay below 430 ft	
OG	923	472	1549	430	550	131	168	1119	999	341	304	37	1	UBF	3	C	Clay	no porous intervals identified below 520 ft
OG	923	472	1549	550	610	168	186	999	939	304	286	18	1	UBF	2	PF	Sandy clayey silt	
OG	923	472	1549	610	740	186	226	939	809	286	247	40	1	UBF	1	PC	gravely silty sand with minor clay	
OG	923	472	1549	740	1400	226	427	809	149	247	45	201	1	UBF	2	PF	silty sand/sandy silt with clay	
OG	923	472	1549	1400	1600	427	488	149	-51	45	-16	61	2	LBF	4	EVAP	Interbedded silty sand, sandy silt, clayey silt, and gypsum/anhydrite	
OG	923	472	1549	1600	1680	488	512	-51	-131	-16	-40	24	2	LBF	4	EVAP	Interbedded sandy clayey silt, clayey silt, anhydrite and probable halite	
OG	923	472	1549	1680	1844	512	562	-131	-295	-40	-90	50	2	LBF	4	EVAP	Interbedded halite and mud	
OG	923	472	1549	1844	2129	562	649	-295	-580	-90	-177	87	2	LBF	4	EVAP	Interbedded halite and mud with minor anhydrite	
OG	923	472	1549	2129	2211	649	674	-580	-662	-177	-202	25	2	LBF	4	EVAP	Interbedded clayey silt, mud, anhydrite with minor halite	
OG	923	472	1549	2211	2321	674	707	-662	-772	-202	-235	34	2	LBF	4	EVAP	Interbedded halite and mud	
OG	923	472	1549	2321	2343	707	714	-772	-794	-235	-242	7	2	LBF	4	EVAP	mudstone and anhydrite	

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OG	923	472	1549	2343	2810	714	856	-794	-1261	-242	-384	142	2	LBF	4	EVAP	interbedded halite and mudstone	
OG	923	472	1549	2810	2924	856	891	-1261	-1375	-384	-419	35	2	LBF	4	EVAP	interbedded mudstone/claystone	
OG	923	472	1549	2924	2994	891	913	-1375	-1445	-419	-440	21	2	LBF	4	EVAP	interbedded halite and mudstone	
OG	923	472	1549	2994	3766	913	1148	-1445	-2217	-440	-676	235	2	LBF	4	EVAP	interbedded anhydrite and mudstone	
OG	923	472	1549	3766	3883	1148	1184	-2217	-2334	-676	-711	36	2	LBF	4	EVAP	interbedded halite, mudstone, and anhydrite	
OG	923	472	1549	3883	3930	1184	1198	-2334	-2381	-711	-726	14	2	LBF	4	EVAP	interbedded mudstone and anhydrite	
OG	923	472	1549	3930	4858	1198	1481	-2381	-3309	-726	-1009	283	2	LBF	6	HAL	halite with minor interbedded and interstitial mudstone and anhydrite	
OG	923	472	1549	4858	4893	1481	1491	-3309	-3344	-1009	-1019	11	2	LBF	4	EVAP	anhydrite with minor mudstone	
OG	925	459	1507	0	1000	0	305	1507	507	459	155	305	1	UBF	1	PC	coarse grained quartz and mafic igneous conglomerate with clay intervals	
OG	925	459	1507	1000	1010	305	308	507	497	155	151	3	1	UBF	2	PF	brown claystone with minor pebble conglomerate	
OG	925	459	1507	1010	1040	308	317	497	467	151	142	9	1	UBF	3	C	brown claystone	
OG	925	459	1507	1040	1050	317	320	467	457	142	139	3	1	UBF	1	PC	coarse grained pebble conglomerate, quartz, igneous and limestone	
OG	925	459	1507	1050	1190	320	363	457	317	139	97	43	1	UBF	2	PF	brown claystone with minor subangular quartz sand	
OG	925	459	1507	1190	1210	363	369	317	297	97	91	6	1	UBF	3	C	brown claystone	
OG	925	459	1507	1210	1360	369	415	297	147	91	45	46	1	UBF	3	C	brown claystone with minor subangular quartz sand and some limestone pebbles	
OG	925	459	1507	1360	1410	415	430	147	97	45	30	15	1	UBF	4	EVAP	brown claystone with angular anhydrite and quartz sand	
OG	925	459	1507	1410	1440	430	439	97	67	30	20	9	1	UBF	2	PF	brown claystone and igneous conglomerate	
OG	925	459	1507	1440	1460	439	445	67	47	20	14	6	1	UBF	4	EVAP	brown claystone with minor angular anhydrite	
OG	925	459	1507	1460	1510	445	460	47	-3	14	-1	15	1	UBF	2	PF	brown claystone with sand	
OG	925	459	1507	1510	1550	460	472	-3	-43	-1	-13	12	1	UBF	4	EVAP	brown claystone with anhydrite shards	
OG	925	459	1507	1550	1620	472	494	-43	-113	-13	-34	21	1	UBF	2	PF	brown claystone with subangular quartz pebbles	
OG	925	459	1507	1620	1790	494	546	-113	-283	-34	-86	52	1	UBF	2	PF	brown claystone with quartz sand conglomerate	
OG	925	459	1507	1790	1820	546	555	-283	-313	-86	-95	9	1	UBF	4	EVAP	brown siltstone with lime cement and minor quartz sand	
OG	925	459	1507	1820	1830	555	558	-313	-323	-95	-98	3	1	UBF	8	LIME	white to buff limestone with mafic igneous pebble	
OG	925	459	1507	1830	1950	558	594	-323	-443	-98	-135	37	1	UBF	4	EVAP	Light brown siltstone with lime cement and quartz sand	
OG	925	459	1507	1950	2150	594	655	-443	-643	-135	-196	61	1	UBF	1	PC	igneous pebble conglomerate with light brown lime-cemented siltstone	
OG	925	459	1507	2150	2500	655	762	-643	-993	-196	-303	107	1	UBF	4	EVAP	light brown calcareous siltstone and buff limestone with occ. Granite pebbles. Interbeds of buff limestone	
OG	925	459	1507	2500	2540	762	774	-993	-1033	-303	-315	12	1	UBF	8	LIME	buff limestone with light brown siltstone and calcite cement	
OG	925	459	1507	2540	2580	774	786	-1033	-1073	-315	-327	12	1	UBF	4	EVAP	light brown calcareous siltstone with bright white quartz siltstone	Bottom of UBF based on abundance of evaporitic deposits below this interval
OG	925	459	1507	2580	2650	786	808	-1073	-1143	-327	-348	21	2	LBF	8	LIME	buff limestone with light gray-brown calcareous shale and siltstone with calcite cement	Chloride from 2,900 to 11,000 between 2570 and 2620 ft-bls
OG	925	459	1507	2650	2670	808	814	-1143	-1163	-348	-354	6	2	LBF	4	EVAP	light brown calcareous siltstone with bright white quartz siltstone	
OG	925	459	1507	2670	2720	814	829	-1163	-1213	-354	-370	15	2	LBF	4	EVAP	Light brown calcareous siltstone and brown claystone and halite	190,000 ppm Chloride at 2,700 ft
OG	925	459	1507	2720	2730	829	832	-1213	-1223	-370	-373	3	2	LBF	8	LIME	buff limestone with mafic pebbles and salt	
OG	925	459	1507	2730	2750	832	838	-1223	-1243	-373	-379	6	2	LBF	4	EVAP	Light brown calcareous siltstone and brown claystone and halite	
OG	925	459	1507	2750	2770	838	844	-1243	-1263	-379	-385	6	2	LBF	6	HAL	halite with brown claystone	200,000 ppm Chloride at 2,750 ft
OG	925	459	1507	2770	2890	844	881	-1263	-1383	-385	-422	37	2	LBF	4	EVAP	Light brown calcareous siltstone and brown claystone and halite	
OG	925	459	1507	2890	2990	881	911	-1383	-1483	-422	-452	30	2	LBF	7	ANHY	milky white anhydrite with light brown calcareous siltstone	
OG	925	459	1507	2990	3170	911	966	-1483	-1663	-452	-507	55	2	LBF	4	EVAP	milky white quartz with light brown calc siltstone and clays	
OG	926	465	1524	0	960	0	293	1524	564	465	172	293	1	UBF	1	PC	Coarse grained quartz and mafic igneous conglomerate with clay and shale intervals	10 ft core log in files

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)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
OG	926	465	1524	960	980	293	299	564	544	172	166	6	1	UBF	2	PF	tan shale	mud log pg 45
OG	926	465	1524	980	1010	299	308	544	514	166	157	9	1	UBF	1	PC	Coarse grained quartz and mafic igneous conglomerate with clay and shale intervals	
OG	926	465	1524	1010	1030	308	314	514	494	157	151	6	1	UBF	2	PF	Brown clays with subgr. Quartz sand and feldspar conglomerate	
OG	926	465	1524	1030	1230	314	375	494	294	151	90	61	1	UBF	1	PC	Subrounded quartz and igneous sand/conglomerate with brown clays	
OG	926	465	1524	1230	1250	375	381	294	274	90	84	6	1	UBF	1	PC	coarse grained quartz conglomerate with olivine and mafic igneous inclusions	olivine material delivered from late Miocene basalts to northeast?
OG	926	465	1524	1250	1290	381	393	274	234	84	71	12	1	UBF	1	PC	Subrounded quartz and igneous sand/conglomerate with brown clays	
OG	926	465	1524	1290	1340	393	408	234	184	71	56	15	1	UBF	3	C	brown clays with buff siltstone	
OG	926	465	1524	1340	1440	408	439	184	84	56	26	30	1	UBF	1	PC	Subrounded quartz and igneous sand/conglomerate with brown clays	
OG	926	465	1524	1440	1510	439	460	84	14	26	4	21	1	UBF	1	PC	milky subrounded quartz sand and occ. Conglomerate, with possible limestone chips(?)	
OG	926	465	1524	1510	1530	460	466	14	-6	4	-2	6	1	UBF	2	PF	Gray clays and claystone with subrounded quartz sand	
OG	926	465	1524	1530	1610	466	491	-6	-86	-2	-26	24	1	UBF	1	PC	milky subrounded quartz sand with brown clays	
OG	926	465	1524	1610	1670	491	509	-86	-146	-26	-45	18	1	UBF	2	PF	gray siltstone and milky quartz sand and salt	
OG	926	465	1524	1670	3014	509	919	-146	-1490	-45	-454	410	2	LBF	6	HAL	halite with siltstone and brown clay intervals	
OG	926	465	1524	3014	3316	919	1011	-1490	-1792	-454	-546	92	2	LBF	7	ANHY	anhydrite, milky white with minor gray and red siltstones	
OG	933	465	1527	0	95	0	29	1527	1432	465	436	29	1	UBF	11	U	no sample	more detailed log in report
OG	933	465	1527	95	130	29	40	1432	1397	436	426	11	1	UBF	1	PC	sandy	
OG	933	465	1527	130	210	40	64	1397	1317	426	401	24	1	UBF	11	U	no sample	
OG	933	465	1527	210	510	64	155	1317	1017	401	310	91	1	UBF	2	PF	silt and clay	
OG	933	465	1527	510	700	155	213	1017	827	310	252	58	1	UBF	3	C	clay, light red-brown gumbo with abundant calcite	
OG	933	465	1527	700	800	213	244	827	727	252	222	30	1	UBF	3	C	white clay	
OG	933	465	1527	800	900	244	274	727	627	222	191	30	1	UBF	3	C	light brown clay	
OG	933	465	1527	900	1000	274	305	627	527	191	161	30	1	UBF	11	U	no sample	
OG	933	465	1527	1000	1570	305	479	527	-43	161	-13	174	1	UBF	3	C	light brown clay	
OG	933	465	1527	1570	1590	479	485	-43	-63	-13	-19	6	1	UBF	2	PF	silty clay, light gray, trace salt	
OG	933	465	1527	1590	3060	485	933	-63	-1533	-19	-467	448	2	LBF	4	EVAP	salt and claystone	
OG	933	465	1527	3060	3708	933	1130	-1533	-2181	-467	-665	198	2	LBF	7	ANHY	anhydrite, claystone and salt	
OG	933	465	1527	3708	4510	1130	1375	-2181	-2983	-665	-909	244	2	LBF	6	HAL	salt, claystone with minor anhydrite	
OG	933	465	1527	4510	5630	1375	1716	-2983	-4103	-909	-1251	341	2	LBF	7	ANHY	anhydrite, claystone grading into siltstone at base	
OG	933	465	1527	5630	8784	1716	2677	-4103	-7257	-1251	-2212	961	2	LBF	1	PC	siltstone and sandstone grading into arkosic granite wash conglomerate	
OG	11-09	447	1468	0	60	0	18	1468	1408	447	429	18	1	UBF	1	PC	13 5/8 surface casing	multiple logs
OG	11-09	447	1468	60	390	18	119	1408	1078	429	329	101	1	UBF	3	C	soft sandy clay	
OG	11-09	447	1468	390	400	119	122	1078	1068	329	326	3	1	UBF	1	PC	coarse water gravel	
OG	11-09	447	1468	400	410	122	125	1068	1058	326	322	3	1	UBF	3	C	blue clay	
OG	11-09	447	1468	410	491	125	150	1058	977	322	298	25	1	UBF	3	C	tough brown clay	
OG	11-09	447	1468	491	653	150	199	977	815	298	248	49	1	UBF	3	C	hard red brown shale	
OG	11-09	447	1468	653	674	199	205	815	794	248	242	6	1	UBF	3	C	soft red brown shale	
OG	11-09	447	1468	674	716	205	218	794	752	242	229	13	1	UBF	4	EVAP	brown gypsum shale - streaks lime, clay	slight show oil and gas- tar, sand very meek
OG	11-09	447	1468	716	717	218	219	752	751	229	229	0	1	UBF	4	EVAP	soft sandy brown gypsum shale- gas and oil showings	
OG	11-09	447	1468	717	806	219	246	751	662	229	202	27	1	UBF	4	EVAP	soft sandy brown gypsum shale- light gas and oil showings	
OG	11-09	447	1468	806	860	246	262	662	608	202	185	16	1	UBF	1	PC	brown shaley sandy conglomerate- light gas and oil showings	
OG	11-09	447	1468	860	1000	262	305	608	468	185	143	43	1	UBF	4	EVAP	red and brown gypsum shale- streaks of green-lime sandy clay	
OG	11-09	447	1468	1000	1021	305	311	468	447	143	136	6	1	UBF	5	GYP	gypsum, red shale	
OG	11-09	447	1468	1021	1023	311	312	447	445	136	136	1	1	UBF	8	LIME	fine sandy lime, soft and granular- gas showings	
OG	11-09	447	1468	1023	1100	312	335	445	368	136	112	23	1	UBF	5	GYP	red gypsum ground shale - light gas and oil showings	
OG	11-09	447	1468	1100	1112	335	339	368	356	112	109	4	1	UBF	3	C	sandy shore clay	

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OG	11-09	447	1468	1112	1150	339	351	356	318	109	97	12	1	UBF	4	EVAP	brown gypsum shale	
OG	11-09	447	1468	1150	1160	351	354	318	308	97	94	3	1	UBF	4	EVAP	brown gypsum shale	
OG	11-09	447	1468	1160	1185	354	361	308	283	94	86	8	1	UBF	4	EVAP	cored, soft sandy lime, brown shale and gypsum	
OG	11-09	447	1468	1185	1340	361	408	283	128	86	39	47	1	UBF	4	EVAP	cored, soft sandy lime, brown shale and gypsum (light rainbow and gas)	
OG	11-09	447	1468	1340	1350	408	411	128	118	39	36	3	1	UBF	4	EVAP	red sandy gypsum shale	
OG	11-09	447	1468	1350	1460	411	445	118	8	36	2	34	1	UBF	4	EVAP	red sandy lime shale	
OG	11-09	447	1468	1460	1520	445	463	8	-52	2	-16	18	1	UBF	4	EVAP	red sandy lime shale	
OG	11-09	447	1468	1520	1523	463	464	-52	-55	-16	-17	1	1	UBF	4	EVAP	light gas and oil showings - slight trace in ditch	
OG	11-09	447	1468	1523	1570	464	479	-55	-102	-17	-31	14	1	UBF	4	EVAP	red gypsum, lime, sulphur, shale	
OG	11-09	447	1468	1570	1580	479	482	-102	-112	-31	-34	3	1	UBF	5	GYP	brown gypsum, lime, sulphur, shale	
OG	11-09	447	1468	1580	1585	482	483	-112	-117	-34	-36	2	1	UBF	5	GYP	slight showing gas and oil	
OG	11-09	447	1468	1585	1900	483	579	-117	-432	-36	-132	96	1	UBF	5	GYP	brown reddish gypsum, shaley clay	
OG	11-09	447	1468	1900	1905	579	581	-432	-437	-132	-133	2	1	UBF	5	GYP	brown reddish gypsum, shaley clay - oil rainbow with gas	
OG	11-09	447	1468	1905	1950	581	594	-437	-482	-133	-147	14	1	UBF	1	PC	sandy conglomerate, red shale and sub-round, hard pack-showing oil	
OG	11-09	447	1468	1950	2090	594	637	-482	-622	-147	-190	43	1	UBF	4	EVAP	gypsum, lime, shale	
OG	11-09	447	1468	2090	2100	637	640	-622	-632	-190	-193	3	1	UBF	1	PC	10' soft sandy phase	
OG	11-09	447	1468	2100	2300	640	701	-632	-832	-193	-254	61	1	UBF	4	EVAP	red sandy gypsum, shale -streaks of lime - light gas and oil showings	
OG	11-09	447	1468	2300	2440	701	744	-832	-972	-254	-296	43	1	UBF	4	EVAP	gray lime, sandy shale	LBF/UBF pick from Pool, 2001
OG	11-09	447	1468	2440	2450	744	747	-972	-982	-296	-299	3	2	LBF	1	PC	sub-round gravel	
OG	11-09	447	1468	2450	2490	747	759	-982	-1022	-299	-312	12	2	LBF	1	PC	hard gray sand and gravel pack	
OG	11-09	447	1468	2490	2504	759	763	-1022	-1036	-312	-316	4	2	LBF	1	PC	14' gas showings in ditch	
OG	11-09	447	1468	2504	2700	763	823	-1036	-1232	-316	-376	60	2	LBF	1	PC	fine and coarse sand, gravel, glacial laydown, sulphur, gas in ditch	
OG	11-09	447	1468	2700	2970	823	905	-1232	-1502	-376	-458	82	2	LBF	1	PC	fine and coarse sand, gravel, glacial laydown, sulphur, gas in ditch	
OG	11-09	447	1468	2970	2980	905	908	-1502	-1512	-458	-461	3	2	LBF	1	PC	gravel and sand cored, 1 foot recovery	
OG	11-09	447	1468	2980	3000	908	914	-1512	-1532	-461	-467	6	2	LBF	4	EVAP	red gypsum shale, streaks, of lime, gray, sandy clay	
OG	11-09	447	1468	3000	3050	914	930	-1532	-1582	-467	-482	15	2	LBF	8	LIME	streaks of gray lime, sand and gravel	
OG	11-09	447	1468	3050	3080	930	939	-1582	-1612	-482	-491	9	2	LBF	4	EVAP	dark brownish, red shale, buff sandy lime, sub-round jasper hematite	
OG	11-09	447	1468	3080	3176	939	968	-1612	-1708	-491	-521	29	2	LBF	4	EVAP	dark brownish, red shale, buff sandy lime, sub-round jasper hematite	
OG	11-09	447	1468	3176	3270	968	997	-1708	-1802	-521	-549	29	2	LBF	1	PC	fine amber sand	
OG	11-09	447	1468	3270	3350	997	1021	-1802	-1882	-549	-574	24	2	LBF	1	PC	hard sandy pack with streaks of lime and brown clay	
OG	11-09	447	1468	3350	3380	1021	1030	-1882	-1912	-574	-583	9	2	LBF	1	PC	reddish brown conglomerate, cored, poor recovery andesite wash	
OG	11-09	447	1468	3380	3495	1030	1065	-1912	-2027	-583	-618	35	2	LBF	1	PC	reddish brown conglomerate, cored, poor recovery andesite wash	
OG	11-09	447	1468	3495	3680	1065	1122	-2027	-2212	-618	-674	56	2	LBF	9	LAVA	porphyry andesite streaks of diorite in fracture planes	
OG	11-09	447	1468	3680	3690	1122	1125	-2212	-2222	-674	-677	3	2	LBF	9	LAVA	gas showings 1/2 hr. 2 flares in ditch	
OG	11-09	447	1468	3690	3700	1125	1128	-2222	-2232	-677	-680	3	2	LBF	9	LAVA	monzonite andesite	
OG	11-09	447	1468	3700	3850	1128	1173	-2232	-2382	-680	-726	46	2	LBF	8	LIME	andesite streaks, brown lime - light showings oil and gas	
OG	11-09	447	1468	3850	3870	1173	1180	-2382	-2402	-726	-732	6	2	LBF	8	LIME	calcium contents increasing in drilling fluid, hi-temp, gray sandy lime, light showings oil and gas	
OG	11-09	447	1468	3870	3930	1180	1198	-2402	-2462	-732	-750	18	2	LBF	8	LIME	buff, sandy lime	
OG	11-09	447	1468	3930	4000	1198	1219	-2462	-2532	-750	-772	21	5	B	9	LAVA	monzonite, andesite	
OG	11-09	447	1468	4000	4010	1219	1222	-2532	-2542	-772	-775	3	5	B	9	LAVA	monzonite, andesite	
OG	11-09	447	1468	4010	4030	1222	1228	-2542	-2562	-775	-781	6	5	B	9	LAVA	monzonite, andesite	
OG	11-09	447	1468	4030	4040	1228	1231	-2562	-2572	-781	-784	3	5	B	9	LAVA	spar andesite, streaks of diorite, biotite and muscovite in a ground mass with bentonite in conglomerate pack	
OG	11-09	447	1468	4040	4064	1231	1239	-2572	-2596	-784	-791	7	5	B	9	LAVA	andesite. Hole reduced to 6" inside diameter, 7" outside diameter	
OG	11-09	447	1468	4064	4067	1239	1240	-2596	-2599	-791	-792	1	5	B	9	LAVA	hard andesite	
OG	11-09	447	1468	4067	4093	1240	1248	-2599	-2625	-792	-800	8	5	B	9	LAVA	hard andesite - streaks of clay	

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OG	11-09	447	1468	4093	4098	1248	1249	-2625	-2630	-800	-802	2	5	B	9	LAVA	cored. Disclosed fracture andesite, 3' recovery	
OG	11-09	447	1468	4098	4125	1249	1257	-2630	-2657	-802	-810	8	5	B	8	LIME	formation changing - lime phase	From this interval down, hard lime and sandy lime appears to be an older consolidated rock with intrusions of andesite porphyry. Paleozoic sequence?
OG	11-09	447	1468	4125	4160	1257	1268	-2657	-2692	-810	-821	11	5	B	8	LIME	brown sandy lime streaks, shale	
OG	11-09	447	1468	4160	4183	1268	1275	-2692	-2715	-821	-828	7	5	B	8	LIME	hard sandy lime, streaks andesite	
OG	11-09	447	1468	4183	4210	1275	1283	-2715	-2742	-828	-836	8	5	B	8	LIME	hard sandy lime, streaks andesite - unflammable gas	
OG	11-09	447	1468	4210	4252	1283	1296	-2742	-2784	-836	-849	13	5	B	8	LIME	buff, sandy lime, andesite	
OG	11-09	447	1468	4252	4268	1296	1301	-2784	-2800	-849	-853	5	5	B	8	LIME	quartzite, monzonite, andesite, streaks buff sandy lime	
OG	11-09	447	1468	4268	4278	1301	1304	-2800	-2810	-853	-856	3	5	B	8	LIME	hard drab lime, streaks of siliceous shale	
OG	11-09	447	1468	4278	4296	1304	1309	-2810	-2828	-856	-862	5	5	B	8	LIME	gray sandy lime, streaks brown sand	
OG	11-09	447	1468	4296	4300	1309	1311	-2828	-2832	-862	-863	1	5	B	8	LIME	hard gray and brown sandy lime	
OG	11-09	447	1468	4300	4312	1311	1314	-2832	-2844	-863	-867	4	5	B	8	LIME	hard gray sandy lime	
OG	11-09	447	1468	4312	4319	1314	1316	-2844	-2851	-867	-869	2	5	B	8	LIME	hard gray siliceous lime	
OG	11-09	447	1468	4319	4330	1316	1320	-2851	-2862	-869	-872	3	5	B	8	LIME	brown cast sandy lime	
OG	11-09	447	1468	4330	4351	1320	1326	-2862	-2883	-872	-879	6	5	B	8	LIME	gray sandy lime, streaks of monzonite	
OG	11-09	447	1468	4351	4367	1326	1331	-2883	-2899	-879	-884	5	5	B	8	LIME	gray sandy lime, soft streaks of silica	
OG	11-09	447	1468	4367	4377	1331	1334	-2899	-2909	-884	-887	3	5	B	8	LIME	gray and brownish shale, soft streaks, sandy lime - light showing oil and gas	
OG	11-09	447	1468	4377	4387	1334	1337	-2909	-2919	-887	-890	3	5	B	8	LIME	gray and brownish shale, soft streaks, sandy lime - light showing oil and gas	
OG	11-09	447	1468	4387	4417	1337	1346	-2919	-2949	-890	-899	9	5	B	8	LIME	gray and brownish shale, soft streaks, sandy lime - light showing oil and gas - formation softer	
OG	11-09	447	1468	4417	4445	1346	1355	-2949	-2977	-899	-907	9	5	B	8	LIME	gray sandy lime, streaks gray clay, thin lenses black shale. 4429-4435 - hard and abrasive, 4435-4445 - very soft	
OG	11-09	447	1468	4445	4477	1355	1365	-2977	-3009	-907	-917	10	5	B	8	LIME	dioritic streaks of andesite, streaks sandy lime and arcoid	
OG	11-09	447	1468	4477	4489	1365	1368	-3009	-3021	-917	-921	4	5	B	8	LIME	hard siliceous andesite, streaks monzonite, drilling 1' per hour, hughes bit W7R	
OG	11-09	447	1468	4489	4502	1368	1372	-3021	-3034	-921	-925	4	5	B	8	LIME	gray sandy lime	
OG	11-09	447	1468	4502	4512	1372	1375	-3034	-3044	-925	-928	3	5	B	8	LIME	gray sandy lime - streaks of andesite	
OG	11-09	447	1468	4512	4525	1375	1379	-3044	-3057	-928	-932	4	5	B	8	LIME	hard sandy pack, streaks of gray lime	
OG	11-09	447	1468	4525	4528	1379	1380	-3057	-3060	-932	-933	1	5	B	8	LIME	hard sandy gray lime	
OG	11-09	447	1468	4528	4536	1380	1383	-3060	-3068	-933	-935	2	5	B	8	LIME	hard sandy gray lime	
OG	11-09	447	1468	4536	4539	1383	1384	-3068	-3071	-935	-936	1	5	B	8	LIME	hard gray sandstone	
OG	11-09	447	1468	4539	4547	1384	1386	-3071	-3079	-936	-938	2	5	B	8	LIME	hard gray sandstone	
OG	11-09	447	1468	4547	4551	1386	1387	-3079	-3083	-938	-940	1	5	B	8	LIME	sandy, lime, streaks of quartzite	
OG	11-09	447	1468	4551	4562	1387	1391	-3083	-3094	-940	-943	3	5	B	8	LIME	sandy, lime, streaks of quartzite	
OG	11-09	447	1468	4562	4567	1391	1392	-3094	-3099	-943	-945	2	5	B	8	LIME	hard streaks of andesite wash, streaks buff and gray lime	
OG	11-09	447	1468	4567	4572	1392	1394	-3099	-3104	-945	-946	2	5	B	8	LIME	hard streaks of andesite wash, streaks buff and gray lime	
OG	11-09	447	1468	4572	4575	1394	1394	-3104	-3107	-946	-947	1	5	B	8	LIME	hard streaks of andesite wash, streaks buff and gray lime	
OG	11-09	447	1468	4575	4586	1394	1398	-3107	-3118	-947	-950	3	5	B	8	LIME	hard streaks of andesite wash, streaks buff and gray lime	
OG	11-09	447	1468	4586	4595	1398	1401	-3118	-3127	-950	-953	3	5	B	8	LIME	sandy lime, streaks of andesite	
OG	11-09	447	1468	4595	4601	1401	1402	-3127	-3133	-953	-955	2	5	B	8	LIME	sandy lime, streaks of andesite	
OG	11-09	447	1468	4601	4606	1402	1404	-3133	-3138	-955	-956	2	5	B	8	LIME	cored - poor recovery, fine sandy lime, bentonite ball clay	
OG	11-09	447	1468	4606	4609	1404	1405	-3138	-3141	-956	-957	1	5	B	8	LIME	hard sandy lime, streaks of andesite	
OG	11-09	447	1468	4609	4613	1405	1406	-3141	-3145	-957	-959	1	5	B	8	LIME	hard sandy lime, streaks of andesite	
OG	11-09	447	1468	4613	4615	1406	1407	-3145	-3147	-959	-959	0	5	B	8	LIME	fine hard sandy lime, streaks of andesite	
OG	11-09	447	1468	4615	4616	1407	1407	-3147	-3148	-959	-960	0	5	B	8	LIME	hard sandy lime	
OG	11-09	447	1468	4616	4618	1407	1408	-3148	-3150	-960	-960	1	5	B	8	LIME	very hard lime	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (m)	To Depth (m)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thickness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
OG	11-09	447	1468	4618	4624	1408	1409	-3150	-3156	-960	-962	2	5	B	8	LIME	hard lime	
OG	11-09	447	1468	4624	4632	1409	1412	-3156	-3164	-962	-964	2	5	B	8	LIME	sandy hard lime	
OG	11-09	447	1468	4632	4637	1412	1413	-3168	-3169	-964	-966	2	5	B	8	LIME	andesite, quartzite	
OG	11-09	447	1468	4637	4647	1413	1416	-3169	-3179	-966	-969	3	5	B	8	LIME	sandstone between 4642-4645 - 3' soft sandy lime	
OG	11-09	447	1468	4647	4656	1416	1419	-3179	-3188	-969	-972	3	5	B	8	LIME	sandstone with streaks quartzite and lime	
OG	11-09	447	1468	4656	4661	1419	1421	-3188	-3193	-972	-973	2	5	B	8	LIME	gray quartzite, streaks of hard sand	
OG	11-09	447	1468	4661	4664	1421	1422	-3193	-3196	-973	-974	1	5	B	8	LIME	gray quartzite, streaks of hard sand	
OG	11-09	447	1468	4664	4668	1422	1423	-3196	-3200	-974	-975	1	5	B	8	LIME	soft, drab clay- light showings gas and oil	
OG	11-09	447	1468	4668	4670	1423	1423	-3200	-3202	-975	-976	1	5	B	8	LIME	gray, drab clay, lime, sand	
OG	11-09	447	1468	4670	4678	1423	1426	-3202	-3210	-976	-978	2	5	B	8	LIME	gray sandstone streaks soft shale	
OG	11-09	447	1468	4678	4685	1426	1428	-3210	-3217	-978	-981	2	5	B	8	LIME	gray sandstone streaks soft shale	
OG	11-09	447	1468	4685	4691	1428	1430	-3217	-3223	-981	-982	2	5	B	8	LIME	very hard abrasive sand	
OG	11-09	447	1468	4691	4696	1430	1431	-3223	-3228	-982	-984	2	5	B	8	LIME	soft clay, formation thickening - drilling fluid	
OG	11-09	447	1468	4696	4700	1431	1433	-3228	-3232	-984	-985	1	5	B	8	LIME	very hard abrasive sandstone	
OG	11-09	447	1468	4700	4715	1433	1437	-3232	-3247	-985	-990	5	5	B	8	LIME	breccia, arcoid, bentonite, streaks of gray coarse sand	
OG	11-09	447	1468	4715	4723	1437	1440	-3247	-3255	-990	-992	2	5	B	8	LIME	gray coarse sandy lime	
OG	11-09	447	1468	4723	4729	1440	1441	-3255	-3261	-992	-994	2	5	B	8	LIME	gray coarse sandy lime - showings gas and oil	
OG	11-09	447	1468	4729	4731	1441	1442	-3261	-3263	-994	-995	1	5	B	8	LIME	gray sandy lime, streaks of buff calcareous sandstone, characteristic of Dolomite	
OG	11-09	447	1468	4731	4742	1442	1445	-3263	-3274	-995	-998	3	5	B	8	LIME	gray sandy lime, streaks of buff calcareous sandstone, characteristic of Dolomite - streaks of sulphur casts	
OG	11-12	476	1563	0	4	0	1	1563	1559	476	475	1	1	UBF	1	PC	topsoil	in depth descriptions in report
OG	11-12	476	1563	4	47	1	14	1559	1516	475	462	13	1	UBF	1	PC	silty sand	
OG	11-12	476	1563	47	56	14	17	1516	1507	462	459	3	1	UBF	1	PC	sand and gravel	
OG	11-12	476	1563	56	97	17	30	1507	1466	459	447	12	1	UBF	1	PC	silty sand to sandy silt	
OG	11-12	476	1563	97	100	30	30	1466	1463	447	446	1	1	UBF	1	PC	no sample	
OG	11-12	476	1563	100	176	30	54	1463	1387	446	423	23	1	UBF	1	PC	sand and gravel	
OG	11-12	476	1563	176	181	54	55	1387	1382	423	421	2	1	UBF	2	PF	no sample	
OG	11-12	476	1563	181	186	55	57	1382	1377	421	420	2	1	UBF	2	PF	silty clay	
OG	11-12	476	1563	186	255	57	78	1377	1308	420	399	21	1	UBF	1	PC	sand and gravel	
OG	11-12	476	1563	255	287	78	87	1308	1276	399	389	10	1	UBF	2	PF	clayey to sandy silt	
OG	11-12	476	1563	287	298	87	91	1276	1265	389	386	3	1	UBF	2	PF	silty clay	
OG	11-12	476	1563	298	378	91	115	1265	1185	386	361	24	1	UBF	1	PC	silty sand	
OG	11-12	476	1563	378	391	115	119	1185	1172	361	357	4	1	UBF	1	PC	sand and gravel	
OG	11-12	476	1563	391	576	119	176	1172	987	357	301	56	1	UBF	2	PF	silty to clayey sand	
OG	11-12	476	1563	576	623	176	190	987	940	301	287	14	1	UBF	2	PF	silty to sandy clay	
OG	11-12	476	1563	623	687	190	209	940	876	287	267	20	1	UBF	2	PF	silty to clayey sand	
OG	11-12	476	1563	687	708	209	216	876	855	267	261	6	1	UBF	2	PF	sandy clay	
OG	11-12	476	1563	708	762	216	232	855	801	261	244	16	1	UBF	1	PC	sand	
OG	11-12	476	1563	762	867	232	264	801	696	244	212	32	1	UBF	2	PF	sandy clay	
OG	11-12	476	1563	867	890	264	271	696	673	212	205	7	1	UBF	2	PF	sandy silt	
OG	11-12	476	1563	890	969	271	295	673	594	205	181	24	1	UBF	2	PF	silty to clayey sand	
OG	11-12	476	1563	969	1028	295	313	594	535	181	163	18	1	UBF	2	PF	sandy silt to sandy clay	
OG	11-12	476	1563	1028	1410	313	430	535	153	163	47	116	1	UBF	2	PF	silty to sandy clay	
OG	11-12	476	1563	1410	1678	430	511	153	-115	47	-35	82	2	LBF	4	EVAP	silty clay	Gypsiferous and interbedded evaporites below this depth
OG	11-12	476	1563	1678	1934	511	589	-115	-371	-35	-113	78	2	LBF	4	EVAP	silty clay	
OG	11-12	476	1563	1934	1944	589	593	-371	-381	-113	-116	3	2	LBF	4	EVAP	silty clay	
OG	11-14	474	1556	0	50	0	15	1556	1506	474	459	15	1	UBF	1	PC	sand	
OG	11-14	474	1556	50	134	15	41	1506	1422	459	434	26	1	UBF	1	PC	fine sand	
OG	11-14	474	1556	134	192	41	59	1422	1364	434	416	18	1	UBF	1	PC	sand & clay	
OG	11-14	474	1556	192	340	59	104	1364	1216	416	371	45	1	UBF	1	PC	sand & streaks of clay	
OG	11-14	474	1556	340	490	104	149	1216	1066	371	325	46	1	UBF	1	PC	sand & clay	
OG	11-14	474	1556	490	550	149	168	1066	1006	325	307	18	1	UBF	1	PC	sand & heavy clay	
OG	11-14	474	1556	550	570	168	174	1006	986	307	301	6	1	UBF	1	PC	clay & gravel	
OG	11-14	474	1556	570	1300	174	396	986	256	301	78	223	1	UBF	1	PC	sand & streaks of clay	

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)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
OG	11-14	474	1556	1300	1416	396	432	256	140	78	43	35	1	UBF	1	PC	sand, clay & gravel	
OG	11-14	474	1556	1416	1420	432	433	140	136	43	42	1	1	UBF	2	PF	brown shale	
OG	11-14	474	1556	1420	1440	433	439	136	116	42	35	6	1	UBF	1	PC	sand & clay	
OG	11-14	474	1556	1440	1477	439	450	116	79	35	24	11	1	UBF	2	PF	brown shale	
OG	11-14	474	1556	1477	1500	450	457	79	56	24	17	7	1	UBF	1	PC	sand & clay	
OG	11-14	474	1556	1500	1532	457	467	56	24	17	7	10	1	UBF	2	PF	brown shale & clay	
OG	11-14	474	1556	1532	1560	467	475	24	-4	7	-1	9	1	UBF	2	PF	brown shale	
OG	11-14	474	1556	1560	1574	475	480	-4	-18	-1	-5	4	1	UBF	1	PC	clay, sand & gravel	
OG	11-14	474	1556	1574	1910	480	582	-18	-354	-5	-108	102	1	UBF	2	PF	shale & clay	
OG	11-14	474	1556	1910	1962	582	598	-354	-406	-108	-124	16	1	UBF	1	PC	sand & clay	
OG	11-14	474	1556	1962	2000	598	610	-406	-444	-124	-135	12	1	UBF	2	PF	shale & clay	
OG	11-14	474	1556	2000	2017	610	615	-444	-461	-135	-140	5	2	LBF	1	PC	clay shale & gravel	UBF/LBF Pick from Pool, 2001
OG	11-14	474	1556	2017	2025	615	617	-461	-469	-140	-143	2	2	LBF	1	PC	sand & gravel	
OG	11-14	474	1556	2025	2080	617	634	-469	-524	-143	-160	17	2	LBF	1	PC	shale & gravel	
OG	11-14	474	1556	2080	2085	634	636	-524	-529	-160	-161	2	2	LBF	3	C	clay	
OG	11-14	474	1556	2085	2109	636	643	-529	-553	-161	-168	7	2	LBF	3	C	clay & shale	
OG	11-14	474	1556	2109	2116	643	645	-553	-560	-168	-171	2	2	LBF	2	PF	clay, shale & sand	
OG	11-14	474	1556	2116	2135	645	651	-560	-579	-171	-176	6	2	LBF	1	PC	shale & gravel	
OG	11-14	474	1556	2135	2208	651	673	-579	-652	-176	-199	22	2	LBF	1	PC	gravel & sand	
OG	11-14	474	1556	2208	2247	673	685	-652	-691	-199	-210	12	2	LBF	1	PC	gravel & clay	
OG	11-14	474	1556	2247	2260	685	689	-691	-704	-210	-214	4	2	LBF	2	PF	clay & sand	
OG	11-14	474	1556	2260	2273	689	693	-704	-717	-214	-218	4	2	LBF	2	PF	black shale	
OG	11-14	474	1556	2273	2283	693	696	-717	-727	-218	-221	3	2	LBF	3	C	clay	
OG	11-14	474	1556	2283	2325	696	709	-727	-769	-221	-234	13	2	LBF	2	PF	clay & sand	
OG	11-14	474	1556	2325	2367	709	721	-769	-811	-234	-247	13	2	LBF	1	PC	sand, clay & gravel	
OG	11-14	474	1556	2367	2448	721	746	-811	-892	-247	-272	25	2	LBF	1	PC	sand & clay	
OG	11-14	474	1556	2448	2461	746	750	-892	-905	-272	-276	4	2	LBF	2	PF	heavy clay & sand	
OG	11-14	474	1556	2461	2475	750	754	-905	-919	-276	-280	4	2	LBF	3	C	clay	
OG	11-14	474	1556	2475	2568	754	783	-919	-1012	-280	-308	28	2	LBF	2	PF	clay & sand	
OG	11-14	474	1556	2568	2596	783	791	-1012	-1040	-308	-317	9	2	LBF	1	PC	sand	
OG	11-14	474	1556	2596	2616	791	797	-1040	-1060	-317	-323	6	2	LBF	3	C	clay	
OG	11-14	474	1556	2616	2627	797	801	-1060	-1071	-323	-326	3	2	LBF	1	PC	sand & clay	
OG	11-14	474	1556	2627	2639	801	804	-1071	-1083	-326	-330	4	2	LBF	3	C	clay	
OG	11-14	474	1556	2639	2700	804	823	-1083	-1144	-330	-349	19	2	LBF	1	PC	sand & clay	
OG	11-18	473	1553	0	7	0	2	1553	1546	473	471	2	1	UBF	2	PF	sandy silt	in depth descriptions in report
OG	11-18	473	1553	7	14	2	4	1546	1539	471	469	2	1	UBF	2	PF	silty clay	
OG	11-18	473	1553	14	27	4	8	1539	1526	469	465	4	1	UBF	1	PC	sand	
OG	11-18	473	1553	27	67	8	20	1526	1486	465	453	12	1	UBF	1	PC	sand and gravel	
OG	11-18	473	1553	67	400	20	122	1486	1153	453	351	101	1	UBF	2	PF	sandy clay	
OG	11-18	473	1553	400	450	122	137	1153	1103	351	336	15	1	UBF	1	PC	silty to clayey sand	
OG	11-18	473	1553	450	500	137	152	1103	1053	336	321	15	1	UBF	2	PF	clayey silt	
OG	11-18	473	1553	500	506	152	154	1053	1047	321	319	2	1	UBF	2	PF	silty sand	
OG	11-18	473	1553	506	705	154	215	1047	848	319	258	61	1	UBF	2	PF	silty to sandy clay	
OG	11-18	473	1553	705	1050	215	320	848	503	258	153	105	1	UBF	2	PF	silty clay	808' greenish clay lense; 870' slight salty taste, dip about 10 deg at 900.
OG	11-18	473	1553	1050	1200	320	366	503	353	153	108	46	1	UBF	1	PC	sandy silt to silty sand	
OG	11-18	473	1553	1200	2007	366	612	353	-454	108	-138	246	2	LBF	1	PC	conglomerate	UBF/LBF Pick from Pool, 2001
55	206641	429	1409	0	40	0	12	1409	1369	429	417	12	1	UBF	1	PC	Top soil, sand, gravel	
55	206641	429	1409	40	90	12	27	1369	1319	417	402	15	1	UBF	1	PC	sandy clay and gravel	
55	206641	429	1409	90	110	27	34	1319	1299	402	396	6	1	UBF	1	PC	gravel and sand cored, 1 foot recovery	
55	206641	429	1409	110	120	34	37	1299	1289	396	393	3	1	UBF	1	PC	large gravel	
55	206641	429	1409	120	160	37	49	1289	1249	393	381	12	1	UBF	1	PC	sandy clay and gravel	
55	206641	429	1409	160	280	49	85	1249	1129	381	344	37	1	UBF	1	PC	sand and gravel w/ some clay	
55	206641	429	1409	280	300	85	91	1129	1109	344	338	6	1	UBF	1	PC	sand w/ clay	
55	206641	429	1409	300	360	91	110	1109	1049	338	320	18	1	UBF	3	C	sticky clay	
55	206641	429	1409	360	370	110	113	1049	1039	320	317	3	1	UBF	3	C	grey clay	

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)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
55	206641	429	1409	370	620	113	189	1039	789	317	240	76	1	UBF	3	C	brown and grey sticky clay	
55	206641	429	1409	620	699	189	213	789	710	240	216	24	1	UBF	3	C	brown clay w/ streaks of gravel	
55	206641	429	1409	699	930	213	283	710	479	216	146	70	1	UBF	3	C	brown clay w/ streaks of gravel	
55	206641	429	1409	930	1440	283	439	479	-31	146	-10	155	1	UBF	3	C	brown and white clay	
55	206641	429	1409	1440	1470	439	448	-31	-61	-10	-19	9	1	UBF	3	C	clay and gravel	
55	206641	429	1409	1470	1860	448	567	-61	-451	-19	-138	119	1	UBF	3	C	clay	
55	206641	429	1409	1860	1920	567	585	-451	-511	-138	-156	18	2	LBF	1	PC	gravel w/ some clay	Contact similar to Pool, 2001, DD.
55	206641	429	1409	1920	2150	585	655	-511	-741	-156	-226	70	2	LBF	1	PC	gravel, sand w/ clay	
55	206641	429	1409	2150	2310	655	704	-741	-901	-226	-275	49	2	LBF	1	PC	gravel - clay and sand	
55	507368	482	1581	0	40	0	12	1581	1541	482	470	12	1	UBF	1	PC	surface sand and gravel	
55	507368	482	1581	40	137	12	42	1541	1444	470	440	30	1	UBF	1	PC	pea gravel with boulders and sand	
55	507368	482	1581	137	358	42	109	1444	1223	440	373	67	1	UBF	1	PC	sand gravel with streaks of clay	
55	507368	482	1581	358	800	109	244	1223	781	373	238	135	1	UBF	2	PF	sandy clay and silt	
55	507368	482	1581	800	1480	244	451	781	101	238	31	207	1	UBF	2	PF	clay, sandy silt with small streaks of gravel	
55	507368	482	1581	1480	1720	451	524	101	-139	31	-42	73	1	UBF	1	PC	silty sand with streaks of clay	
55	507368	482	1581	1720	1848	524	563	-139	-267	-42	-81	39	1	UBF	2	PF	silty clay and gravel	
55	507368	482	1581	1848	2000	563	610	-267	-419	-81	-128	46	2	LBF	1	PC	gravel	Contact based on change in lithology only. Poorly constrained.
35	17936	447	1465	0	60	0	18	1465	1405	447	428	18	1	UBF	1	PC	alluvium	
35	17936	447	1465	60	355	18	108	1405	1110	428	338	90	2	LBF	1	PC	conglomerate (bedrock @ 355')	Pick based on nearby exposures basalt interbedded with basin-fill (LBF)
35	17936	447	1465	355	525	108	160	1110	940	338	286	52	5	B	10	B	quartz monzonite porphyry	
35	17936	447	1465	525	1600	160	488	940	-135	286	-41	328	5	B	10	B	granodiorite porphyry	
35	17936	447	1465	1600	2006	488	611	-135	-541	-41	-165	124	5	B	10	B	unclassified bedrock	
35	18698	430	1410	0	7	0	2	1410	1403	430	428	2	1	UBF	1	PC	top soil	
35	18698	430	1410	7	31	2	9	1403	1379	428	420	7	1	UBF	1	PC	sand	
35	18698	430	1410	31	392	9	119	1379	1018	420	310	110	1	UBF	1	PC	sand & gravel	
35	18698	430	1410	392	437	119	133	1018	973	310	297	14	1	UBF	2	PF	clay & gravel	
35	18698	430	1410	437	1863	133	568	973	-453	297	-138	435	1	UBF	3	C	clay	
35	18698	430	1410	1863	1886	568	575	-453	-476	-138	-145	7	2	LBF	2	PF	clay & gravel	
35	18698	430	1410	1886	2291	575	698	-476	-881	-145	-269	123	2	LBF	1	PC	clay, gravel & boulders	
35	18698	430	1410	2291	2370	698	722	-881	-960	-269	-293	24	2	LBF	1	PC	decomposed granite	
35	18698	430	1410	2370	2376	722	724	-960	-966	-293	-294	2	5	B	10	B	granite	
35	18881	437	1432	0	75	0	23	1432	1357	437	414	23	1	UBF	1	PC	soil	
35	18881	437	1432	75	150	23	46	1357	1282	414	391	23	1	UBF	1	PC	gravel	
35	18881	437	1432	150	250	46	76	1282	1182	391	360	30	1	UBF	2	PF	sandy clay	
35	18881	437	1432	250	300	76	91	1182	1132	360	345	15	1	UBF	1	PC	sand & gravel	
35	18881	437	1432	300	1630	91	497	1132	-198	345	-60	405	1	UBF	3	C	clay	
35	18881	437	1432	1630	1800	497	549	-198	-368	-60	-112	52	2	LBF	1	PC	cemented gravel	
35	18881	437	1432	1800	1820	549	555	-368	-388	-112	-118	6	2	LBF	2	PF	clay & gravel	
35	18881	437	1432	1820	2185	555	666	-388	-753	-118	-229	111	2	LBF	1	PC	cemented gravel	
35	19838	424	1392	0	3	0	1	1392	1389	424	423	1	1	UBF	1	PC	top soil	
35	19838	424	1392	3	85	1	26	1389	1307	423	398	25	1	UBF	1	PC	caliche	
35	19838	424	1392	85	300	26	91	1307	1092	398	333	66	1	UBF	2	PF	clay with streaks of caliche	
35	19838	424	1392	300	440	91	134	1092	952	333	290	43	2	LBF	1	PC	conglomerate with clay & caliche	UBF/LBF contact likely deeper than 400 ft
35	19838	424	1392	440	2930	134	893	952	-1538	290	-469	759	2	LBF	1	PC	conglomerate of granite	
35	19979	432	1418	0	53	0	16	1418	1365	432	416	16	1	UBF	2	PF	top soil & sandy clay	
35	19979	432	1418	53	70	16	21	1365	1348	416	411	5	1	UBF	1	PC	sand	
35	19979	432	1418	70	80	21	24	1348	1338	411	408	3	1	UBF	1	PC	gravel	
35	19979	432	1418	80	90	24	27	1338	1328	408	405	3	1	UBF	1	PC	sand	
35	19979	432	1418	90	280	27	85	1328	1138	405	347	58	1	UBF	1	PC	gravel	
35	19979	432	1418	280	340	85	104	1138	1078	347	328	18	1	UBF	1	PC	coarse sand	
35	19979	432	1418	340	360	104	110	1078	1058	328	322	6	1	UBF	1	PC	fine gravel	
35	19979	432	1418	360	410	110	125	1058	1008	322	307	15	1	UBF	1	PC	gravel	
35	19979	432	1418	410	1800	125	549	1008	-382	307	-117	424	1	UBF	3	C	clay	

Well Type	Well ID	Elev. (m)	Elev. (ft)	From Depth (m)	To Depth (ft)	From Depth (m)	To Depth (m)	Top Elev. (ft)	Bottom Elev. (ft)	Top Elev. (m)	Bottom Elev. (m)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
35	19979	432	1418	1800	2300	549	701	-382	-882	-117	-269	152	2	LBF	7	ANHY	anhydrite & clay streaks	
35	19979	432	1418	2300	3000	701	914	-882	-1582	-269	-482	213	2	LBF	1	PC	hard conglomerate	
35	20164	450	1476	0	12	0	4	1476	1464	450	446	4	1	UBF	3	C	hard clay	
35	20164	450	1476	12	185	4	56	1464	1291	446	393	53	1	UBF	3	C	clay	
35	20164	450	1476	185	198	56	60	1291	1278	393	389	4	1	UBF	1	PC	sand & gravel	
35	20164	450	1476	198	375	60	114	1278	1101	389	335	54	1	UBF	3	C	clay	
35	20164	450	1476	375	388	114	118	1101	1088	335	332	4	1	UBF	1	PC	sand & water	
35	20164	450	1476	388	1160	118	354	1088	316	332	96	235	1	UBF	3	C	clay	
35	20164	450	1476	1160	1700	354	518	316	-224	96	-68	165	1	UBF	2	PF	sandy clay	
35	20164	450	1476	1700	2540	518	774	-224	-1064	-68	-324	256	2	LBF	1	PC	hard conglomerate	UBF/LBF Pick from Pool, 2001
35	20198	440	1443	0	60	0	18	1443	1383	440	421	18	1	UBF	1	PC	top soil & fine sand	
35	20198	440	1443	60	130	18	40	1383	1313	421	400	21	1	UBF	1	PC	coarse sand	
35	20198	440	1443	130	150	40	46	1313	1293	400	394	6	1	UBF	3	C	clay	
35	20198	440	1443	150	190	46	58	1293	1253	394	382	12	1	UBF	1	PC	pea gravel	
35	20198	440	1443	190	300	58	91	1253	1143	382	348	34	1	UBF	2	PF	clay with gravels	
35	20198	440	1443	300	1220	91	372	1143	223	348	68	280	1	UBF	3	C	clay04	
35	20198	440	1443	1220	1285	372	392	223	158	68	48	20	1	UBF	2	PF	clay with sand & gravel & some cemented with boulders	
35	20198	440	1443	1285	1385	392	422	158	58	48	18	30	1	UBF	2	PF	clay with loose sand & gravel	
35	20198	440	1443	1385	1900	422	579	58	-457	18	-139	157	1	UBF	2	PF	clay with very little gravel	
35	20198	440	1443	1900	1960	579	597	-457	-517	-139	-158	18	1	UBF	3	C	clay	
35	20198	440	1443	1960	2060	597	628	-517	-617	-158	-188	30	2	LBF	1	PC	gravel & coarse sand	
35	20198	440	1443	2060	2130	628	649	-617	-687	-188	-210	21	2	LBF	1	PC	cemented sand with gravel streaks	
35	20198	440	1443	2130	2250	649	686	-687	-807	-210	-246	37	2	LBF	1	PC	conglomerate with some loose gravel streaks	
35	20198	440	1443	2250	2312	686	705	-807	-869	-246	-265	19	2	LBF	1	PC	cemented conglomerate	
35	20248	435	1428	0	20	0	6	1428	1408	435	429	6	1	UBF	1	PC	sand	
35	20248	435	1428	20	40	6	12	1408	1388	429	423	6	1	UBF	1	PC	gravel	
35	20248	435	1428	40	90	12	27	1388	1338	423	408	15	1	UBF	1	PC	coarse sand	
35	20248	435	1428	90	110	27	34	1338	1318	408	402	6	1	UBF	1	PC	fine gravel	
35	20248	435	1428	110	200	34	61	1318	1228	402	374	27	1	UBF	1	PC	clay & gravel	
35	20248	435	1428	200	230	61	70	1228	1198	374	365	9	1	UBF	1	PC	gravel	
35	20248	435	1428	230	300	70	91	1198	1128	365	344	21	1	UBF	1	PC	clay & gravel	
35	20248	435	1428	300	310	91	94	1128	1118	344	341	3	1	UBF	1	PC	gravel	
35	20248	435	1428	310	360	94	110	1118	1068	341	326	15	1	UBF	1	PC	clay & gravel	
35	20248	435	1428	360	1000	110	305	1068	428	326	131	195	1	UBF	3	C	clay	
35	20248	435	1428	1000	1260	305	384	428	168	131	51	79	1	UBF	3	C	hard clay & shale	
35	20248	435	1428	1260	1300	384	396	168	128	51	39	12	1	UBF	2	PF	clay & some gravel	
35	20248	435	1428	1300	1480	396	451	128	-52	39	-16	55	1	UBF	3	C	hard clay	
35	20248	435	1428	1480	1560	451	475	-52	-132	-16	-40	24	1	UBF	2	PF	clay with some gravel	
35	20248	435	1428	1560	1650	475	503	-132	-222	-40	-68	27	1	UBF	3	C	hard clay	
35	20248	435	1428	1650	1800	503	549	-222	-372	-68	-113	46	1	UBF	2	PF	clay with some gravel	
35	20248	435	1428	1800	2000	549	610	-372	-572	-113	-174	61	1	UBF	3	C	clay	
35	20248	435	1428	2000	2050	610	625	-572	-622	-174	-189	15	2	LBF	4	EVAP	anhydrite crystals & gravel	Pick based on presence of anhydrite
35	20248	435	1428	2050	2090	625	637	-622	-662	-189	-202	12	2	LBF	2	PF	clay & some gravel	
35	20248	435	1428	2090	2100	637	640	-662	-672	-202	-205	3	2	LBF	4	EVAP	gravel with anhydrite crystals	
35	20248	435	1428	2100	2120	640	646	-672	-692	-205	-211	6	2	LBF	3	C	clay	
35	20248	435	1428	2120	2140	646	652	-692	-712	-211	-217	6	2	LBF	4	EVAP	gravel with anhydrite crystals	
35	20248	435	1428	2140	2210	652	674	-712	-782	-217	-238	21	2	LBF	2	PF	clay with gravel	
35	20248	435	1428	2210	2300	674	701	-782	-872	-238	-266	27	2	LBF	4	EVAP	gravel with anhydrite crystals	
35	20248	435	1428	2300	2320	701	707	-872	-892	-266	-272	6	2	LBF	2	PF	clay with gravel	
35	20248	435	1428	2320	2340	707	713	-892	-912	-272	-278	6	2	LBF	4	EVAP	gravel with anhydrite crystals	
35	20248	435	1428	2340	2430	713	741	-912	-1002	-278	-305	27	2	LBF	2	PF	clay with gravel	
35	20248	435	1428	2430	2540	741	774	-1002	-1112	-305	-339	34	2	LBF	4	EVAP	gravel with anhydrite crystals	
35	20248	435	1428	2540	2560	774	780	-1112	-1132	-339	-345	6	2	LBF	3	C	sandy clay	
35	20248	435	1428	2560	2758	780	841	-1132	-1330	-345	-405	60	2	LBF	4	EVAP	conglomerate with a few anhydrite crystals	
35	23136	488	1602	0	4	0	1	1602	1598	488	487	1	1	UBF	1	PC	top soil	

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)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
35	23136	488	1602	4	12	1	4	1598	1590	487	485	2	1	UBF	3	C	clay	
35	23136	488	1602	12	16	4	5	1590	1586	485	484	1	1	UBF	1	PC	caliche	
35	23136	488	1602	16	74	5	23	1586	1528	484	466	18	1	UBF	3	C	clay	
35	23136	488	1602	74	93	23	28	1528	1509	466	460	6	1	UBF	1	PC	sand	
35	23136	488	1602	93	164	28	50	1509	1438	460	438	22	1	UBF	2	PF	clay & gravel	
35	23136	488	1602	164	173	50	53	1438	1429	438	436	3	1	UBF	1	PC	sand & gravel	
35	23136	488	1602	173	270	53	82	1429	1332	436	406	30	1	UBF	2	PF	clay & gravel (first water @ 260')	
35	23136	488	1602	270	276	82	84	1332	1326	406	404	2	1	UBF	1	PC	gravel & sand	
35	23136	488	1602	276	364	84	111	1326	1238	404	377	27	1	UBF	3	C	clay	
35	23136	488	1602	364	372	111	113	1238	1230	377	375	2	1	UBF	1	PC	sand & gravel	
35	23136	488	1602	372	443	113	135	1230	1159	375	353	22	1	UBF	3	C	clay	
35	23136	488	1602	443	449	135	137	1159	1153	353	352	2	1	UBF	1	PC	sand	
35	23136	488	1602	449	510	137	155	1153	1092	352	333	19	1	UBF	3	C	clay	
35	23136	488	1602	510	514	155	157	1092	1088	333	332	1	1	UBF	1	PC	gravel	
35	23136	488	1602	514	520	157	158	1088	1082	332	330	2	1	UBF	3	C	clay	
35	23136	488	1602	520	532	158	162	1082	1070	330	326	4	1	UBF	1	PC	sand & gravel	
35	23136	488	1602	532	541	162	165	1070	1061	326	324	3	1	UBF	3	C	clay	
35	23136	488	1602	541	567	165	173	1061	1035	324	316	8	1	UBF	1	PC	cemented gravel	
35	23136	488	1602	567	688	173	210	1035	914	316	279	37	1	UBF	3	C	clay	
35	23136	488	1602	688	694	210	212	914	908	279	277	2	1	UBF	1	PC	cemented gravel	
35	23136	488	1602	694	698	212	213	908	904	277	276	1	1	UBF	1	PC	clay & gravel	
35	23136	488	1602	698	710	213	216	904	892	276	272	4	1	UBF	3	C	clay	
35	23136	488	1602	710	715	216	218	892	887	272	270	2	1	UBF	1	PC	cemented sand	
35	23136	488	1602	715	742	218	226	887	860	270	262	8	1	UBF	1	PC	clay & gravel	
35	23136	488	1602	742	746	226	227	860	856	262	261	1	1	UBF	1	PC	cemented gravel	
35	23136	488	1602	746	755	227	230	856	847	261	258	3	1	UBF	3	C	clay	
35	23136	488	1602	755	770	230	235	847	832	258	254	5	1	UBF	1	PC	cemented gravel	
35	23136	488	1602	770	820	235	250	832	782	254	238	15	1	UBF	3	C	clay	
35	23136	488	1602	820	830	250	253	782	772	238	235	3	1	UBF	1	PC	conglomerate	
35	23136	488	1602	830	912	253	278	772	690	235	210	25	1	UBF	3	C	clay	
35	23136	488	1602	912	985	278	300	690	617	210	188	22	1	UBF	2	PF	clay & 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)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
35	23136	488	1602	985	998	300	304	617	604	188	184	4	1	UBF	3	C	clay	
35	23136	488	1602	998	1015	304	309	604	587	184	179	5	1	UBF	2	PF	clay & gravel	
35	23136	488	1602	1015	1107	309	337	587	495	179	151	28	1	UBF	3	C	clay	
35	23136	488	1602	1107	1132	337	345	495	470	151	143	8	1	UBF	2	PF	clay & gravel	
35	23136	488	1602	1132	1137	345	347	470	465	143	142	2	1	UBF	3	C	clay	
35	23136	488	1602	1137	1139	347	347	465	463	142	141	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1139	1198	347	365	463	404	141	123	18	1	UBF	3	C	clay	
35	23136	488	1602	1198	1202	365	366	404	400	123	122	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1202	1208	366	368	400	394	122	120	2	1	UBF	3	C	clay	
35	23136	488	1602	1208	1210	368	369	394	392	120	120	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1210	1225	369	373	392	377	120	115	5	1	UBF	3	C	clay	
35	23136	488	1602	1225	1228	373	374	377	374	115	114	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1228	1240	374	378	374	362	114	110	4	1	UBF	3	C	clay	
35	23136	488	1602	1240	1243	378	379	362	359	110	110	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1243	1256	379	383	359	346	110	106	4	1	UBF	3	C	clay	
35	23136	488	1602	1256	1260	383	384	346	342	106	104	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1260	1281	384	390	342	321	104	98	6	1	UBF	3	C	clay	
35	23136	488	1602	1281	1285	390	392	321	317	98	97	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1285	1286	392	392	317	316	97	96	0	1	UBF	3	C	clay	
35	23136	488	1602	1286	1289	392	393	316	313	96	96	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1289	1348	393	411	313	254	96	78	18	1	UBF	3	C	clay	
35	23136	488	1602	1348	1351	411	412	254	251	78	77	1	1	UBF	1	PC	hard shell	
35	23136	488	1602	1351	1677	412	511	251	-75	77	-23	99	1	UBF	3	C	clay	
35	23136	488	1602	1677	1797	511	548	-75	-195	-23	-59	37	1	UBF	3	C	clay shale	
35	23136	488	1602	1797	1850	548	564	-195	-248	-59	-75	16	1	UBF	3	C	clay	
35	23136	488	1602	1850	1940	564	591	-248	-338	-75	-103	27	1	UBF	3	C	clay with mica	
35	23136	488	1602	1940	2207	591	673	-338	-605	-103	-184	81	1	UBF	3	C	clay	
35	23136	488	1602	2207	2220	673	677	-605	-618	-184	-188	4	1	UBF	3	C	clay shale	
35	23136	488	1602	2220	2350	677	716	-618	-748	-188	-228	40	1	UBF	3	C	clay	
35	23136	488	1602	2350	2410	716	735	-748	-808	-228	-246	18	1	UBF	3	C	clay & fine sand	
35	23136	488	1602	2410	2508	735	764	-808	-906	-246	-276	30	1	UBF	3	C	clay	

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)	Thick-ness (m)	HGU ID1	HGU Code2	HGU ID2	HGU Code2	Lithology	Comments and Notes
35	23832	489	1604	0	10	0	3	1604	1594	489	486	3	1	UBF	2	PF	silt	
35	23832	489	1604	10	192	3	59	1594	1412	486	430	55	1	UBF	1	PC	conglomerate	
35	23832	489	1604	192	237	59	72	1412	1367	430	417	14	1	UBF	1	PC	clay & rock	
35	23832	489	1604	237	366	72	112	1367	1238	417	377	39	1	UBF	1	PC	clay & conglomerate	
35	23832	489	1604	336	400	112	122	1268	1204	377	367	10	1	UBF	3	C	clay	
35	23832	489	1604	400	407	122	124	1204	1197	367	365	2	1	UBF	1	PC	gravel & quartz	
35	23832	489	1604	407	478	124	146	1197	1126	365	343	22	1	UBF	3	C	clay	
35	23832	489	1604	478	493	146	150	1126	1111	343	339	5	1	UBF	1	PC	quartz	
35	23832	489	1604	493	533	150	162	1111	1071	339	327	12	1	UBF	1	PC	clay & boulders	
35	23832	489	1604	533	540	162	165	1071	1064	327	324	2	1	UBF	1	PC	boulders	
35	23832	489	1604	540	570	165	174	1064	1034	324	315	9	1	UBF	1	PC	clay & conglomerate	
35	23832	489	1604	570	1970	174	600	1034	-366	315	-111	427	1	UBF	3	C	clay	

Hydro ID1	HGU Code1	HGU1 Name
1	UBF	Upper Basin Fill
2	LBF	Lower Basin Fill
3	TS	Mid-Tertiary sedimentary rocks
4	TV	Mid-Tertiary volcanic rocks
5	B	Igneous/metamorphic Basement

Hydro ID2	HGU Code2	HGU2 Name
1	PC	Predominantly coarse-grained deposits, including sand, gravel, conglomerate and breccia
2	PF	Predominantly fine-grained deposits
3	C	Predominantly clay
4	EVAP	Predominantly fine-grained clastics with evaporites (gypsum/anhydrite/halite/lime)
5	GYP	Predominantly gypsum with minor clastics
6	HAL	Predominantly halite with minor clastics
7	ANHY	Predominantly anhydrite with minor clastics
8	LIME	Predominantly limestone with minor clastics
9	LAVA	Lava flow(s)
10	B	Crystalline igneous/metamorphic basement rocks
11	U	Unknown deposits