

USGS MONITORING WELL DRILLING AND LITHOLOGIC LOG

COMMON WELL NAME: SAC C PROJECT: GC16ZG00FUVS300 PROJECT CHIEF: David O'Leary
 ELEV: 583' LOCATION: 8300 Cat Canyon Rd., Los Alamos, CA 93440; N34°45'20" W120°17'40" LOGGED BY: Anthony Brown Adam Kim
 DRILLED BY: USGS RDP RIG TYPE: Mud Rotary- TH60 LAG METHOD: Rice (mud)

Depth	Time (min)	Rig noise etc.	Color (Munsell - soil)	Cones	Graphic	Description and other observations	Bit size, & Rice time
0	1511		2.57 4/2	VHV7		Gravelly (gran) SAND (vf-vc)	20" Hole OPENER
20	1540	12'	2.57 5/3	3700		SANDY (vf-vc) gravel (gran-sm peb)	
40	1600	23' chiller	2.57 6/4	VHV7 M		SAND (vf-vc)	9 7/8" Long tooth Trium
40	1615	32'		4890		SANDY (vf-vc) gravel (gran-md peb)	
60	1417		104R 5/4	VHV7 M		Gravelly (gran-sm peb) SAND (vf-vc)	
60	1424		2.57 5/4	4340		Gravelly (gran-sm peb) SAND (vf-vc)	
80	1520			VHV7 M		SANDY (vf-vc) gravel (gran-lg peb)	
80	1532	32'		3780		SAND (vf-m)	
100	1614	85'	2.57 1/3	HV7		SANDY (vf-vc) gravel (gran-lg peb)	
100	1620	95'		3670		SANDY (vf-vc) gravel (gran-lg peb)	
120	1646			HV7		SANDY (vf-vc) gravel (gran-lg peb)	
120	1652			3590		SANDY (vf-vc) gravel (gran-lg peb)	
140	1713		104R 5/4	HV7 M		SANDY (vf-vc) gravel (gran-md peb)	Rice Time 1 1/2 min
140	1721			3400		SANDY (vf-vc) gravel (gran-md peb)	
160	1735	144'		HV7		SANDY (vf-vc) gravel (gran-md peb)	
160	1750	155'	104R 5/4	3070		SANDY (vf-vc) gravel (gran-md peb)	
180	1804			It		SAND (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
180	0855	126' coln		2710		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
200	0901		104R 5/4	It		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
200	0908			2710		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
220	0932		104R 5/4	It		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
220	0945			2810		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
240	1025	199' coln	2.57 6/4	Mud		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
240	1036		104R 5/4	2800		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
260	1103			VHV7		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
260	1111	235'		2740		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
280	1132	235'		2740		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
300	1152			VHV7 M		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
300	1222	248'		2830		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
320	1326	254'		2830		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
340	1354	261'		HV7		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
360	1408	275'		2790		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
380	1416			HV7 M		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
400	1428			2760		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
420	1435			2760		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
440	1443			2760		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
460	1522	306'	104R 5/4	HV7		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
480	1531			2620		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
500	1538			2620		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
520	1552			VHV7		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
540	1558	333'	104R 5/4	2590		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
560	1605			2590		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
580	1630			Mud		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
600	1636			2570		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
620	1652			2570		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
640	1715	362' coln	104R 5/4	It		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
660	1750	374' coln		3470		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
680	1801			3470		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
700	1810	388'	104R 5/4	It		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
720	1817			2510		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	
740	1824	395' coln		2510		SANDY (vf-vc) w/ minor gravel (gran-sm peb) & interbedded clay	

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Depth	Time (min)	Rig noise etc.	Color (Munsell - soil)	Cones	Graphic	Description and other observations	Bit size, & Rice time
400				EC			
7/22 400	1024		10YR 6/4	V HU7		clayey silt	9 7/8" long tooth
	1032			M			rice
420	1043	416'		2220		Gravelly (gran-mid peb) SAND (vf-vc)	
	1100						
	1111		10YR 4/3	V HU4		clayey sandy (vf-c) silt	Rice Time 3 1/2 min
440	1121		10YR 5/4	2140			
	1138			V HU4		clayey sandy (vf-c) silt	
	1146						
460	1156			2180			
	1232			V HU7		clay (Bentonitic)	
	1246						
480	1257			2240			
	1325						
	1335		10YR 5/3	HU7 M		clay	
500	1346			2090		clayey silty SAND (vf-c)	
	1356	505'	10YR 6/4	V HU7			
	1403						
520	1410			2250		SAND (vf-c)	
	1538			V HU7		Gravelly (gran-sm peb) SAND (vf-vc)	
	1543			M			
540	1548			2560			
	1603						
	1608	553' chn	7.5Y 5/2	V HU7		Gravelly (gran-sm peb) SAND (vf-vc)	
560	1616			2440			
	1632						
	1638			V HU7		Gravelly (gran-sm peb) SAND (vf-vc)	Rice Time 5 1/2 min
580	1647			2410			
	1702						
	1709			V HU4		Gravelly (gran-sm peb) SAND (vf-vc)	
600	1716			2380			
	1730						
	1736		2.5Y 5/2	V HU4		Gravelly (gran-sm peb) SAND (vf-vc)	
620	1748	chatter 628'	2.5Y 4/1	2340			
	1758	chatter 628'				sandy (vf-c) silt	
	1833	635'		mod		sandy (vf-m) silt w/ clay (salt n pepper)	
640	1837		2.5Y 5/2	2250			
	0900						
	0905	652' slow		HU7		SAND (vf-vc)	long tooth
660	0922			2020			rice w/ jets
	0943						
	0958	669' chatter	2.5Y 4/1	HU7		clayey silty SAND (vf-vc) s&p	Rice Time 9 min
680	1030			1942			
	1044						
	1119			mod		clayey silty SAND (vf-vc)	
700	1153		2.5Y 5/2	1916			
	1233	723' w/ packing		mod		silty SAND (vf-vc)	
	1240						
720	1331	716'		2110			
	1345	717'	2.5Y 5/3	mod			
	1406						
740	1431			2190		SAND (vf-vc)	
	1448						
	1621			mod		clayey silty SAND (vf-m) mostly SAND (vf-f) but drilling like bakelap	Rice Time 9 min
760	1724			1847			
	1733	728' chatter	2.5Y 6/4	1+		silty sand (vf-vc)	
	1809	775' slow	2.5Y 6/4	2168		clay	stopped @ 776' @ 1825
780	1815						
	0755		2.5Y 5/3	1+		clay	
7/23 800	0918	796'		m		clayey SAND (vf-c)	
7/24	0929			1943			

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800				EC			
7/24	0946	805' chatter	2.5, 5/3	HV7		clayey sand (vf-c)	7 7/8" long tooth
	0950			1931		SAND (vf-vu) w/ some silt	7/24
820	0955	816'		Mod		SANDY (vf-vc) GRAVEL (gran-md peb)	Rice Time 10 min
	1014			1974		SANDY (vf-vc) GRAVEL (gran-md peb)	
840	1019	832' slow		Mod		clay	
	1120			1974		clay	
	1144			Mod		clay	
	1209	850' chatter		1924		clay	
860	1307	852' slow	2.5, 6/3	HV7		clayey silty SAND (vf-vc)	
	1326			1920			
	1430	868' chatter		M		Gravelly (gran) SAND (vf-vc)	
880	1437			1906		Gravelly (gran) SAND (vf-vc)	
	1456	886' slower		VHV4		Gravelly (gran) SAND (vf-vc)	
900	1512			M		Gravelly (gran) SAND (vf-vc)	
	1537			2350		Gravelly (gran) SAND (vf-vc)	
	1556			VHV7		SANDY (vf-vc) GRAVEL (gran-md peb)	
	1614	910' chatter		1995		SANDY (vf-vc) GRAVEL (gran-md peb)	
920	1638			VHV4		SANDY (vf-vc) GRAVEL (gran-md peb)	
	1649			1858		SANDY (vf-vc) GRAVEL (gran-md peb)	Rice Time 11 min
940	1704	937' slow (1')		1+		sandy (vf-vc) silty clay	7/24
7/24	1724			2020			7/25
	1729			HV7		SANDY (vf-vc) GRAVEL (gran-md peb)	
960	1748	slow 958'		2000			
	1024						
7/25	1053						
980	1122	978' chatter					
	1143						
	1148						
1000	1155						