

Table XX. Lithologic Sieve Log for multiple-well monitoring site Valle De Caballos (TMVC) (8S/1W-06R1-6S)

[Altitude of land surface, approximately 1,256 feet. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (2009). Drilled by U.S. Geological Survey using hydraulic rotary, August 2013. Total depth drilled 1,033 feet. Screened intervals: 25-30, 110-130, 270-290, 540-560, 820-840, 940-960, and 980-1,020 feet]

Depth (ft)		Description
From	To	
0	20	Slightly gravelly sand ((g)S); very fine to very coarse sand with granules to small pebbles; very poorly to poorly sorted; subangular to subrounded; olive brown (2.5Y 4/3); <i>micaceous</i> ; <i>abundant mafics</i>
20	40	Sandy gravel (sG); granules to small pebbles with very fine to very coarse sand; very poorly sorted; angular to subrounded; light olive brown (2.5Y 5/3); <i>micaceous</i> ; <i>mafics</i>
40	60	Slightly gravelly sand ((g)S); very fine to medium sand with granules to medium pebbles; very poorly sorted; angular to subangular; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>mafics</i>
60	80	Sandy gravel (sG); fine to very coarse sand with granules; poorly sorted; subangular to subrounded; olive brown (2.5Y 4/3); <i>very micaceous</i> ; <i>mafics</i>
80	100	Sand (S); very fine to very coarse sand with minor silt and trace granules to small pebbles; poorly to moderately sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>very micaceous</i>
100	120	Slightly gravelly sand ((g)S); very fine to very coarse sand with granules to small pebbles; very poorly to poorly sorted; angular to subrounded; olive brown (2.5Y 4/3); <i>very micaceous</i>
120	140	Sandy gravel (sG); granules to small pebbles with very fine to very coarse sand and trace clay; very poorly sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>very micaceous</i> ; <i>mafics</i>
140	160	Slightly gravelly sand ((g)S); very fine to very coarse sand with granules to small pebbles and trace silt; very poorly to poorly sorted; angular to subrounded; olive brown (2.5Y 4/3); <i>very micaceous</i> ; <i>abundant mafics</i>
160	180	Gravelly silty sand (gmS); very fine to very coarse sand with silt and granules to small pebbles; very poorly sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>micaceous</i>
180	200	Sandy clayey silt (sM); silt with clay, very fine to coarse sand, and trace granules; poorly sorted; light olive brown (2.5Y 5/3); <i>very micaceous</i>
200	220	Silty sand (zS); very fine to very coarse sand with silt, minor clay, and trace granules to small pebbles; poorly sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>micaceous</i>
220	240	Sandy silt (sZ); silt with very fine to coarse sand, minor clay, and trace granules; poorly sorted; light olive brown (2.5Y 5/3); <i>very micaceous</i>
240	260	Sandy silt (sZ); silt with very fine to coarse sand and trace granules to small pebbles; poorly sorted; light olive brown (2.5Y 5/3); <i>very micaceous</i>

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Depth (ft)		Description
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260	280	Sandy clayey silt (sM); silt with clay, very fine to very coarse sand, and trace granules to small pebbles; very poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
280	300	Silty sand (zS); very fine to coarse sand with silt and minor clay; poorly to moderately sorted; angular to subrounded; grayish brown (2.5Y 5/2); <i>calcareous; very micaceous</i>
300	320	Clayey sandy silt (sM); silt with very fine to medium sand, clay, and minor coarse sand; poorly to moderately sorted; light olive brown (2.5Y 5/3); <i>calcareous; very micaceous</i>
320	340	Clayey sandy silt (sM); silt with very fine to medium sand, clay, and minor coarse sand; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>calcareous; very micaceous</i>
340	360	Silty sand (zS); very fine to medium sand with silt, minor coarse sand, and trace granules; moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>calcareous; very micaceous</i>
360	380	Clayey silty sand (mS); very fine to coarse sand with silt, clay, and trace granules; poorly sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>calcareous; very micaceous</i>
380	400	Sandy silt (sZ); silt with very fine to coarse sand and minor very coarse sand; poorly to moderately sorted; light olive brown (2.5Y 5/3); <i>micaceous</i>
400	420	Sandy silty clay (sM); clay with silt and very fine to very coarse sand; very poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
420	440	Silty sand (zS); very fine to very coarse sand with silt and trace granules; poorly sorted; angular to subrounded; dark grayish brown (2.5Y 4/2); <i>calcareous; very micaceous</i>
440	460	Sandy silt (sZ); silt with very fine to coarse sand and minor very coarse sand; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>micaceous</i>
460	480	Sandy silt (sZ); silt with very fine to medium sand, minor coarse to very coarse sand, and trace granules to small pebbles; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>slightly calcareous; micaceous</i>
480	500	Silty sand (zS); very fine to coarse sand with silt; poorly to moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>very micaceous</i>
500	520	Silty sand (zS); very fine to coarse sand with silt, minor clay, and trace granules; poorly to moderately sorted; angular to subrounded; grayish brown (2.5Y 5/2); <i>micaceous</i>
520	540	Silty sand (zS); very fine to coarse sand with silt, minor clay, and trace granules; poorly to moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>micaceous</i>

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Depth (ft)		Description
From	To	
540	560	Clayey sand (cS); very fine to medium sand with clay, minor silt, coarse to very coarse sand, and trace granules to small pebbles; poorly to moderately sorted; subangular to rounded; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
560	580	Sandy silty clay (sM); clay with silt, very fine medium sand, and minor coarse to very coarse sand; very poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
580	600	Sandy clayey silt (sM); silt with clay, very fine to medium sand, and minor coarse to very coarse sand; moderately sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
600	620	Sandy silt (sZ); silt with very fine to medium sand and minor clay; moderately sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
620	640	Silty sand (zS); very fine to medium sand with silt and trace granules; moderately to well sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
640	660	Sandy silt (sZ); silt with very fine to fine sand and minor clay; well sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
660	680	Sandy silt (sZ); silt with very fine to coarse sand, minor clay, and trace granules; very poorly to poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
680	700	Sandy silty clay (sM); clay with silt and very fine to very coarse sand; very poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
700	720	Sandy clayey silt (sM); silt with clay and very fine to very coarse sand; very poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
720	740	Sandy silt (sZ); silt with very fine to coarse sand and minor clay; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
740	760	Sandy clayey silt (sM); silt with clay and very fine to coarse sand; poorly sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
760	780	Sandy silty clay (sM); clay with silt, very fine to very coarse sand, and trace granules; very poorly sorted; grayish brown (2.5Y 5/2); <i>micaceous</i>
780	800	Silty clay (M); clay with silt, minor very fine to coarse sand, and trace granules; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
800	820	Silty clay (M); clay with silt and trace medium to coarse sand; moderately to well sorted; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
820	840	Silty clay (M); clay with silt and minor very fine to coarse sand; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>micaceous</i>
840	860	Sandy clayey silt (sM); silt with clay, very fine to very coarse sand, and trace granules; very poorly sorted; grayish brown (2.5Y 5/2); <i>micaceous</i>

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From	To	
860	880	Sandy silty clay (sM); clay with silt, very fine to medium sand, and minor coarse to very coarse sand; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>micaceous</i> ; <i>trace dark reddish brown (2.5YR 3/3) clay</i>
880	900	Sandy silty clay (sM); clay with silt and very fine to very coarse sand; very poorly sorted; light olive brown (2.5Y 5/3); <i>calcareous</i> ; <i>micaceous</i> ; <i>minor yellowish red (5YR 5/6) clay</i>
900	920	Sandy silty clay (sM); clay with silt and very fine to coarse sand; poorly sorted; dark grayish brown (10YR 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>minor yellowish red (5YR 5/6) and trace dark reddish brown (2.5YR 3/3) clay</i> ; <i>weathered scoria 905-940ft</i>
920	940	Sandy gravelly clay (gM); clay with granules to medium pebbles and very fine to very coarse sand; very poorly sorted; weak red (10R 4/3); <i>calcareous</i> ; <i>micaceous</i> ; <i>weathered scoria 905-940'</i>
940	960	Sandy clayey silt (sM); silt with clay and very fine to coarse sand; poorly sorted; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>fine-grained basalt 940-1033ft</i>
960	980	Silty sandy clay (sM); clay with very fine to very coarse sand, silt, and trace granules to small pebbles; very poorly sorted; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>trace 1-5mm charcoal fragments</i> ; <i>fine-grained basalt 940-1033ft</i>
980	1000	Slightly gravelly silty sandy clay ((g)sM); clay with very fine to very coarse sand, silt, and granules to small pebbles; very poorly sorted; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>fine-grained basalt 940-1033ft</i>
1000	1020	Slightly gravelly silty sandy clay ((g)sM); clay with very fine to coarse sand, silt, and granules to small pebbles; very poorly sorted; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>fine-grained basalt 940-1033ft</i>
1020	1030	Slightly gravelly silty sandy clay ((g)sM); clay with very fine to coarse sand, silt, and granules to small pebbles; very poorly sorted; dark grayish brown (2.5Y 4/2); <i>calcareous</i> ; <i>micaceous</i> ; <i>fine-grained basalt 940-1033ft</i>
1030	1033	<i>Cored interval; no sieve sample collected</i>