

Table 40.--Selected well logs

Material	Thick-ness (feet)	Depth (feet)	Material	Thick-ness (feet)	Depth (feet)	Material	Thick-ness (feet)	Depth (feet)	Material	Thick-ness (feet)	Depth (feet)
<u>12/20-10dcb--Continued</u>			<u>12/20-10dcb--Continued</u>			<u>12/20-23aaca--Continued</u>					
Boulder, hard, with fine to coarse sand and silt		3	Boulder, very hard, probably granite	1 1/2	61 1/2	Clay, yellow, hard and soft, sandy, and coarse sand mixed with small rounded gravels to 1/4 inch, possibly water-bearing	11	421	Gravel, uniform, about 4 mm. diameter. 95% subrounded volcanics, mainly basalt. 5% subrounded quartz and chert. Clean sample, no clay.	17	128
Sand, fine to coarse with rounded gravels, cobbles to 8 inches, some sandy yellow clay, mixed	5 1/2	67	Sand, fine to coarse, with rounded gravels to 1 1/2 inches, some sandy yellow clay mixed	5	72	Sand, fine to coarse, with small semi-rounded gravels to 1/4 inch, very silty	4	425	Gravel, uniform. 90% subrounded to angular basalt. 5% subrounded quartz and chert. 5% red-brown clay.	10	135
Sand, fine to coarse, with rounded gravels to 1 1/2 inches, some sandy yellow clay mixed	1	73	Boulder, very hard, probably granite	1 1/2	110 1/2	Clay, yellow, soft, sandy	3	428	Sand, coarse, 30%, and gravel, 70%. 90% basalt in rounded to angular grains. Less than 15% chips. 5% quartz and chert in sand-sized grains. Some lumps of yellow clay.	4	139
Boulder, very hard, probably granite	1	109	Sand, fine to coarse, with rounded gravels to 2 inches, clean in streaks, some cobbles and yellow clay mixed	35	108	Sand, fine to coarse, with small rounded gravels to 1/4 inch	8	442	Sand, coarse, 20%, and gravel, 80%. 90% basalt, rounded to angular grains. 20% chips. 5% quartz and chalcedony. 5% brown clay.	8	147
Sand, fine to coarse, with silt and rounded gravels to 3 inches	1 1/2	110 1/2	Boulder, very hard, probably granite	1 1/2	112	Gravel, coarse, and rock	32	67	Same as above, lump of yellow clay.	8	156
Boulder, very hard, probably granite	1 1/2	112	Sand, fine to coarse, with rounded gravels to 3 inches, probably water-bearing	3	115	Gravel, coarse	21	99	Clay, 50%, and gravel. 50% rounded to angular basalt as gravel and chips, 70%. 50% yellow clay and brown silty clay.	8	163
Sand, fine to coarse, with rounded gravels to 3 inches, probably water-bearing	3	115	Clay, sandy, yellow, with fine to coarse sand and rounded gravels to 1 inch, all mixed	16	131	Sand and boulders	15	120	Sand, coarse, 50%, clay, 30%, and gravel, 20%. 60% basalt to subrounded, 20% chips. 10% quartz and chert. 30% clay. Yellow and brown lumps noted.	8	171
Clay, sandy, yellow, with fine to coarse sand and rounded gravels to 1 inch, all mixed	16	131	Sand, fine to coarse, with silt and large rounded cobbles to 10 inches, some yellow clay mixed	16	147	Sand and coarse gravel	31	135	Sand, coarse, 30%, and gravel, 70%. 80% basalt, subrounded to angular. 20% chips. 20% quartz and chert.	7	178
Sand, fine to coarse, with silt and large rounded cobbles to 10 inches, some yellow clay mixed	16	147	Sand, fine to coarse, with rounded cobbles to 10 inches and boulders to 18 inches appears to be a very good aquifer	9	156	Sand, cobbles, and boulders	29	166	Sand, coarse, 40%, and gravel, 60%. 60% basalt, subrounded to angular. 40% clay. Gray, brown, and yellow clay lumps. 17	195	
Sand, fine to coarse, with rounded cobbles to 10 inches and boulders to 18 inches appears to be a very good aquifer	9	156	Clay, yellow, hard, sticky	5	161	Sand, gravel, and rock	15	195	Sand, coarse, 20%, and gravel, 80%. 80% basalt rounded to angular. 20% quartz, chert, granite. 50% of sample in chips.	9	204
Clay, yellow, hard, sticky	5	161	Sand, fine to coarse, with rounded gravels to 2 inches, and small boulders to 12 inches, occasional streak of hard sticky yellow clay mixed	21	182	Gravel	30	210	Sand, coarse, 40%, gravel, 50%, and clay, 10%. 80% basalt, angular. 10% chert and quartz. 10% brown and yellow clay. Lumps of yellow clay. 50% of sample as chips.	9	213
Sand, fine to coarse, with rounded gravels to 2 inches, and small boulders to 12 inches, occasional streak of hard sticky yellow clay mixed	21	182	Clay, yellow, hard and soft, sandy, with rounded gravels to 1 inch	15	197	Shale and gravel	15	210	As above but more clay, about 30%. Lumps of brown and yellow clay. 10	223	
Clay, yellow, hard and soft, sandy, with rounded gravels to 1 inch	15	197	Sand, fine to coarse, with rounded gravels to 2 inches and cobbles to 10 inches, some yellow clay	48	245	Gravel, 1/2 inch	90	240	Gravel (fines probably washed from sample). 90% basalt, slightly iron stained. 10% quartz and chert.	17	240
Sand, fine to coarse, with rounded gravels to 2 inches and cobbles to 10 inches, some yellow clay	48	245	Sand, fine to coarse, with rounded gravels to 3 inches, very clean, some yellow clay and silt mixed	37	282	Gravel, rock, and boulders	155	240	As above but with about 30% brown clay.	17	257
Sand, fine to coarse, with rounded gravels to 3 inches, very clean, some yellow clay and silt mixed	37	282	Sand, fine to coarse, with cobbles to 10 inches	2	284	Sand and boulders	30	240	Sand, coarse, 20%, and gravel, 80%. 90% basalt, rounded to angular, 10% quartz and chert. Clean sample, no clay.	6	263
Sand, fine to coarse, with cobbles to 10 inches	2	284	Sand, fine to coarse, with rounded gravels to 4 inches and occasional cobbles to 10 inches, some silt mixed	22	306	Clay, yellow, hard, sticky	4	240	Clay, 50%, coarse sand, 10%, and gravel, 40%. 50% brown clay with few lumps yellow clay. 45% basalt, angular 5% quartz and chert. 40-50% chips.	26	289
Sand, fine to coarse, with rounded gravels to 4 inches and occasional cobbles to 10 inches, some silt mixed	22	306	Clay, yellow, hard and soft, sandy	23	329	Sand, coarse, 60% gravel sizes. Some basalt pebbles. 80-90% angular basalt fragments, with brown stains. Subrounded to angular quartz and chert. One calcite fragment noted	10	244	As above but no clay and less chips. 20-30% chips.	8	297
Clay, yellow, hard and soft, sandy	23	329	Sand, fine to coarse, with rounded gravels to 1/2 inch	6	335	Sand, coarse, 60% gravel sizes. Some basalt pebbles. 80-90% angular basalt fragments, with brown stains. Subrounded to angular quartz and chert.	10	244	Sand, coarse, 40%, gravel, 50%, clay, 10%. 90% basalt, angular 10% brown clay, no lumps. 20-30% chips.	16	313
Sand, fine to coarse, with rounded gravels to 1/2 inch	6	335	Clay, yellow, hard, sticky	4	339	Gravel to pebble sizes to 15 mm. 70% pebble-sized angular fragments of black basalt. 20% subangular quartz and chert. 10% red-brown clay.	27	244	Sand, medium, 30%, to gravel, 70%. 90% basalt subrounded to angular. 10% quartz and chert. 20-30% chips.	10	323
Clay, yellow, hard, sticky	4	339	Sand, fine to coarse, with semirounded gravels to 3/4 inch mixed	9	348	Gravel with 20% pebble sizes. 70-80% angular basalt fragments. 15% subrounded to angular quartz and chert. 10% red-brown clay.	15	244			
Sand, fine to coarse, with semirounded gravels to 3/4 inch mixed	9	348	Clay, yellow, very soft, sandy	7	393	Sand, coarse, and gravel. 80-90% angular to subrounded basalt. 10-20% angular quartz and chert. Clean sample, no clay.	12	108			
Clay, yellow, very soft, sandy	7	393	Sand, fine to coarse, with silt and rounded gravels to 3/8 inch mixed	17	410						
Sand, fine to coarse, with silt and rounded gravels to 3/8 inch mixed	17	410									
<u>12/20-10dcb</u>			<u>12/20-10dcb</u>			<u>12/20-23aaca</u>					
Topsoil, tan, with rounded cobbles to 8 inches	4	4	Topsoil	4	4	Topsoil	4	4			
Sand, fine to coarse, with silt and rounded cobbles to 8 inches	6	10	Sand, coarse, with semirounded gravels to 1 1/2 inches mixed, water	14	308	Sand, coarse to very coarse. 70-80% angular basalt fragments, 20% subangular to subrounded quartz and chert. Some biolite. Much gray-brown drilling mud but no clay lumps.	10	14	Sand, coarse, 20%, and gravel, 80%. 80% basalt rounded to angular. 20% quartz, chert, granite. 50% of sample in chips.	9	213
Sand, fine to coarse, with rounded gravels to 3 inches and cobbles to 8 inches	6	10	Clay, yellow, hard, with occasional gravel to 2 inches	5	313	Sand, very coarse to gravel. 70-80% angular brownish-black basalt fragments (may be iron stains). Angular light yellow-brown chert, 10% subrounded to angular quartz. Trace of muscovite and biotite. Clean sample, no clay lumps.	20	34	As above but more clay, about 30%. Lumps of brown and yellow clay. 10	223	
Sand, fine to coarse, with rounded gravels to 3 inches and cobbles to 8 inches	6	10				Gravel, some very coarse sand. 80% subrounded to angular basalt pebbles and fragments, black with brownish stains. Subrounded to subangular quartz and chert. One calcite fragment noted	10	44	Sand, coarse, 20%, and gravel, 80%. 90% basalt, rounded to angular, 10% quartz and chert. Clean sample, no clay.	6	263
						Sand, coarse, 60% gravel sizes. Some basalt pebbles. 80-90% angular basalt fragments, with brown stains. Subrounded to angular quartz and chert.	10	54	Clay, 50%, coarse sand, 10%, and gravel, 40%. 50% brown clay with few lumps yellow clay. 45% basalt, angular 5% quartz and chert. 40-50% chips.	26	289
						Gravel to pebble sizes to 15 mm. 70% pebble-sized angular fragments of black basalt. 20% subangular quartz and chert. 10% red-brown clay.	27	81	As above but no clay and less chips. 20-30% chips.	8	297
						Gravel with 20% pebble sizes. 70-80% angular basalt fragments. 15% subrounded to angular quartz and chert. 10% red-brown clay.	15	96	Sand, coarse, 40%, gravel, 50%, clay, 10%. 90% basalt, angular 10% brown clay, no lumps. 20-30% chips.	16	313
						Sand, coarse, and gravel. 80-90% angular to subrounded basalt. 10-20% angular quartz and chert. Clean sample, no clay.	12	108	Sand, medium, 30%, to gravel, 70%. 90% basalt subrounded to angular. 10% quartz and chert. 20-30% chips.	10	323

(Continued)