

Table 40.--Selected well logs--Continued

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>12/20-22aca--Continued</u>			<u>13/20-32bac</u>			<u>14/20-4bdb</u>			<u>15/20-17dd--Continued</u>		
Sand, coarse, 30%, to gravel, 70%. 90% basalt subrounded to angular. 10% quartz and chert. 20-30% chips.	10	333	Topsoil	2	2	Sand, gravel, and clay	67	67	Clay, streak of sand, hard streaks	25	374
Sand, coarse, 20%, clay, 10%, and gravel, 70%. 90% basalt, well rounded to angular. 10% brown clay with no lumps. 20-30% chips.	20	353	Gravel, large, and cobbles	6	8	Boulder	3	70	Clay and sand, broken	8	382
As above, clay more sandy.	21	374	Gravel, cemented	7	15	Sand, gravel, and clay	90	160	Sand and gravel	5	387
Sand, coarse, 40%, sandy clay, 10%, gravel, 50%. Brown clay, no lumps. Well rounded to angular, 20-30% chips.	12	386	Sand, coarse, and cobbles	11	26	Clay	5	165	Clay, sandy	10	397
Sand, medium to coarse, 95% clay, 5%, rounded to angular 45% basalt. 50% quartz, chert, hornblende. 50% brown clay (as drilling mud) few chips.	8	394	Sand, loose	9	35	Sand and gravel	5	170	Sand and gravel	9	406
Sand, coarse, 95%, to gravel, 5%. 70% basalt. 30% quartz, chert, etc. rounded to angular. Few chips.	8	402	Gravel, tight	5	40	Clay	5	175	Clay, hard streaks	5	411
As above, but 20% brown clay.	8	410	Gravel, loose	5	45	Sand, gravel, and thin streaks of clay	72	247	Sand and clay streaks	5	416
As above, 40% clay.	8	418	Gravel, tight	5	53	Clay	3	250	Clay, streak of sand	16	432
As above, 20% clay.	8	426	Sand, tight	8	57	Sand and gravel	15	265	Sand, gravel, clay streak	6	438
Sand, medium to coarse, 60%, and gravel, 20%, with 20% brown clay.	8	434	Cobbles, cemented	4	61	Clay	3	268	Clay, streak of sand	15	453
As above, 5% clay.	8	442	Clay, gravel, very soft	4	68	Sand and gravel	10	278	Sand, gravel, and clay, broken	28	481
As above, 20% clay.	24	466	Cobbles, cemented	7	78	Clay	4	282	Sand, gravel, streak of clay	30	511
As above, but with 40% brown clay.	8	474	Gravel, loose; tight streaks	10	85	Sand and gravel	2	284	Clay, sandy	11	522
Missing	8	482	Sand, tight	7	90	Clay	2	286	Sand, gravel, streak of clay	12	534
Sand, medium to coarse, 60%, and gravel, 20%, with 40% brown clay.	8	490	Clay, hard	5	90	Sand and gravel	6	292	Clay, sandy	25	559
As above, 30% clay.	8	498	Gravel, loose; tight streak	104	194	Clay	4	296	Sand, gravel, streak of clay	20	579
As above, 50% clay.	8	506	Gravel, tight, and cobbles	13	207	Sand, gravel, and thin streaks of clay	38	334	Sand and clay, broken	7	586
As above, 60% clay.	8	514	Gravel, firm, and cobbles	48	255	Granite boulder	2	336	Sand and gravel	30	616
As above, 70-80% clay.	8	522	Clay	3	258	Sand, gravel, and clay	128	464	Clay, sandy	8	624
Clay, 20%, 60% coarse sand, 20% gravel, lithology unchanged.	5	527	Gravel, large, loose	19	277	Clay with some gravel and sand	26	490	Sand and gravel	33	657
Clay, brown, 90%. Dark gray clay, 10%.	32	559	Gravel, loose	3	280	Granite	29	519	Sand and gravel	5	662
As above with no gray clay and some coarse sand.	8	567	Gravel, loose	16	296	<u>14/20-6cbl</u>			Clay, sandy	18	680
Clay, brown, 90%, coarse sand, 10%.	16	583	Clay	5	301	Sand	3	3	Clay and sand, broken	20	708
As above, 5% coarse sand	8	591	<u>13/20-32daab</u>			Sand and clay	12	15	Clay	14	714
Clay, brown, 80%, coarse sand, 20%.	32	623	Topsoil	3	3	Clay	5	20	Sand and gravel	5	719
As above, 50% coarse sand and gravel.	8	631	Gravel, large, cemented	9	12	Clay, hard	11	31	Clay and sandy clay	18	738
As above, 15% coarse sand and gravel.	19	650	Gravel, cemented	18	30	Clay and sand	31	62	Sand and gravel	4	741
<u>13/19-22abb</u>			Gravel with tight streaks	66	96	Sand and boulders	33	95	Clay and sandy clay	17	758
Alluvium; granitic composition	1,268	1,268	Clay	16	112	Clay	20	115	Sand and gravel	3	761
<u>13/20-7dad</u>			Gravel, loose	9	121	Sand and rock	38	153	Clay and streak of sand	42	803
Topsoil	4	4	Clay and gravel	3	124	Sand, coarse and fine	45	198	<u>15/20-32cab</u>		
Gravel, coarse	6	10	Gravel, loose	11	135	Granite, solid	102	300	Topsoil	1	1
Sand and gravel	8	18	Clay	6	141	<u>15/20-7ddb</u>			Sand	7	8
Clay, blue	2	20	Gravel, loose	21	162	Sand, hardpan at 4 feet	12	12	Clay, sandy	4	12
Sand and gravel	4	24	Gravel, cemented	21	183	Sand, coarse	50	62	Sand, coarse	10	22
Clay, sand, and gravel	12	36	Gravel with tight streaks	19	202	Clay and gravel	6	68	Sand, clay, and firm decomposed granite	28	50
Sand, coarse, and gravel	12	48	Clay	3	205	Clay and sand	12	80	Sand, medium	25	75
Clay, brown	4	52	Gravel, loose	9	214	Gravel and sand	10	90	Sand, firm decomposed granite	43	118
Sand and gravel	22	74	Clay	3	217	Clay and sand	13	103	Sand, medium	2	120
Cobbles	5	79	Granite, tight, decomposed	13	230	Clay and gravel	45	148	Sand, firm decomposed granite	50	170
Sand, medium	46	125	Sand	13	243	Sand and clay	22	190	Sand, medium to coarse	29	199
Sand and gravel	44	169	Clay	29	272	Sand and gravel, cemented, and clay	37	227	Sand, fine	10	209
Sand, clay, and cobbles	45	214	Gravel	25	297	Sand and gravel, cemented, and clay	30	260	Sand and clay in alternating layers	166	375
Sand and gravel	36	250	Clay	4	301	Sand and clay, cemented	22	282	<u>15/20-32ddcc</u>		
Sand and clay	28	278	<u>14/19-15bcc</u>			Sandstone with rocks, cemented	21	303	Topsoil (silty and sandy)	12	12
Cobbles and clay	2	280	Loam, dark, sandy	10	10	Sandstone, cemented	87	390	Sand, silt. Water at 14 feet, came up to 10 feet	8	20
Clay, sandy	55	335	Sand, yellow	15	25	streaks of pebbles	43	433	Sand, gravel to 1 inch	4	24
Clay, sandy, and gravel	60	395	Hardpan	3	28	Granite, decomposed	3	436	Sand, some silt; very clean	16	40
Sand and gravel	10	405	Sand, gravel, yellow muck	24	52	Basalt streaks in decomposed granite	63	499	Silt, green; some clay	6	46
Clay, gravel, and clay	15	420	Granite, decomposed	3	55	Granite, decomposed and clay streaks	11	510	Sand, silt; rust color	23	69
Clay	7	427	Sand, gravel, and muck, water	5	60	Quartz and imbedded quartzite	5	515	Sand, silt; some small gravel; rust color	36	105
Sand, gravel, and clay streaks	14	441	Granite, decomposed	5	65	<u>15/20-17dd</u>			Sand, silt; some small gravel and clay; rust color	15	120
			Sand, gravel, and muck, hard	5	70	Clay, sandy	6	6	Clay, blue, sandy	10	130
			Gravel, large, water	4	74	Sand, coarse, and gravel	18	24	Sand, some clay, brown	16	146
			Cemented	9	83	Silt, black, hard	5	29	Clay, sandy	4	150
			Granite, decomposed	10	93	Clay, sand, and gravel	18	47	Sand, some clay, brown	24	174
			Boulders	5	98	Clay, streak of gravel	22	69	Sand, some clay, gravel	7	181
			Sand, dark, hard	3	101	Gravel, sand, and streak of clay	13	82	Clay, sandy	14	195
			Granite, decomposed	6	107	Sand and gravel	6	88	Sand, some clay	13	208
			Granite, gravel, and sand	13	120	Clay, streak of sand and gravel	16	104	Clay, sandy	19	227
			Rock, hard, solid, sharp	4	124	Sand and gravel	2	106	Sand, some clay	16	243
			Rock, dark, hard	2	126	Clay, streak of sand and gravel	16	122	Granite, rotten	4	247
			Sand and gravel, hard	4	130	Sand and gravel	8	130	<u>16/21-12acd</u>		
			Gravel and sand, hard	4	134	Clay, streak of sand and gravel	7	137	Topsoil	5	5
			Granite and gravel	11	145	Sand, gravel, and clay, broken	52	189	Gravel, decomposed granite, water	55	60
			Clay	15	160	Clay	10	199	Gravel, cemented	15	75
			Sand, gravel, water	23	183	Sand, gravel, and clay streak	8	207	Gravel and rock, water	31	106
			Clay, yellow	3	186	Clay, streak of sand and gravel	13	220	Sand and gravel, water	19	125
			Sand, gravel, water	14	200	Sand, gravel, and clay streak	10	230	Gravel, cemented	8	133
			Rock, dark, hard	4	204	Sand, gravel, and clay, broken	15	245	Sand and gravel, water	8	141
			Clay, yellow, and boulders	6	210	Clay, streak of sand and gravel	7	252	Gravel and small ledges, water	42	183
			Sand and gravel	10	220	Sand, gravel, and clay, broken	45	297	Clay, blue	3	186
			Granite boulders, decomposed	7	227	Clay, streak of sand and gravel	10	307	Gravel, water	11	197
			Sand, gravel, and boulders mixed with clay	12	250	Sand, gravel, and clay, broken	3	310	Granite, decomposed	17	214
			Sand and gravel	13	263	Clay, few hard streaks	27	337	Gravel, water	8	222
			Gravel and boulders	10	273	Sand	12	349	Granite, blue	43	265
			Sand, gravel, and boulders	12	285						
			Sand, water	6	291						
			Granite gravel, decomposed	4	295						
			Rock, hard	7	302						