Table 40.--Selected well logs--Continued

Material	Thickness (feet)	Depth (feet)
19/29-33cbbl		
Sand	20	20
Clay, gray	5	25
Sand	10	35
Clay, blue	55	90
Sand	25	115
Clay	35	150
Sand, cemented	22	172
Clay, sandy	13	185
Clay, blue, and silt	66	251
Clay, blue, and sand	29	280
Clay, blue, and coarser sand	50	330
Sand	63	393
Sand, cemented	8	401
Clay, thin layers, and sand	28	429
Sand	11	440
Clay and sand	30	470
Sand, cemented	10	480
Sand, cemented, with soft spots	16	496
Basalt, black	9	505
Same with soft spots	7	512
Rock, black, extremely hard	5	517
Softer, probably sandstone	6	523
Rock, black and red, fractured	17	540
19/29-33cbb2		
Alluvial topsoil	18	18
Hardpan	11	29
Clay, sandy	81	110
Sand rock, soft	13	123
Clay, blue and green	377	500
Lava rock	30	530
19/29-33cbb3		
Sand	20	20
Clay, sandy	20	40
Sand	15	55
Clay	5	60
Silt, blue	15	75
Clay	10	85
Clay, sandy	45	130
Clay with some sand	10	140
Sand, hard	10	150
Sandstone?	10	160
Sand, loose	4	164
Sand and some clay	52	216
Clay, blue, silty	7	223
Sand	10	233
Clay and sand (very thin layers)	107	340
Sand, hard	10	350
Sandstone, soft	20	370
Sand and clay	38	408
Sand	50	458
Clay, blue, and sand	24	482
Clay, blue	8	490
Sand, cemented	10	500
Basalt	17	517
Basalt, fractured and porous	14	531
20/26-26cc		
Clay, white	32	32
Gravel	18	50
Shale	52	102
Sandstone	18	120
Shale	3	123
Sandstone	23	146
Shale	8	154
Lava rock	23	177
Shale	20	197
Sandstone	7	204
Shale	91	295
Sandstone	60	355
Sand rock, hard	14	369
Clay and sand	2	371
Clay	15	386
Shale	45	431
Shale and sand	9	440
Shale	88	528
Shale and rock	8	536
Shale	39	575
Clay	5	580
Rock	2	582
Sand, dry	8	590
Clay and sand	2	592
Sand, dry	23	615
Shale	4	619
Rock	3	622
Shale	118	740
Shale and sand	12	752
Shale	17	769
Shale and sand	5	774
Shale and rock	4	778
Shale	14	792
Sand	14	806
Shale, black, sticky	13	819
Shale, black, and gravel	7	826
Shale, brown, and gravel	5	831
20/26-26cc--Continued		
Shale, black	9	840
Sand and shale	6	846
Shale, brown and black	11	857
Shale, black	13	870
Shale and slate	3	873
Slate	4	877
Slate and sandy blue clay	4	881
Clay, blue, sandy	23	904
Sandstone	6	910
Sandstone and blue clay	19	929
Sandstone	20	949
Sandstone and blue clay	8	957
Sandstone	6	963
Sandstone and blue clay	15	978
Clay, blue, sticky	7	985
Clay, blue	10	995
Clay, blue, and sand	8	1,003
Clay, blue	17	1,020
Clay, blue, and sand rock	5	1,025
Sandstone	10	1,035
Clay, blue	12	1,047
Clay, blue, and sandstone	9	1,056
Clay, blue	7	1,063
Clay, blue, and sand	11	1,074
Clay, blue	6	1,080
Clay, sandy	6	1,086
Sandstone and clay	8	1,094
Shale, sandy	8	1,102
Sand	2	1,104
Clay, sandy	5	1,109
Sand	15	1,124
Clay, blue	11	1,135
Slate, blue	4	1,139
Sandstone	4	1,143
Clay, blue	7	1,150
Shale, blue	14	1,164
Sandstone	6	1,170
Shale, blue	10	1,180
Sandstone, gray, hard	3	1,183
Sandstone	3	1,186
Clay, white	9	1,195
Chalk rock	8	1,203
Clay, white	17	1,220
Sand rock, blue	10	1,230
Shale, blue	6	1,236
Sand rock, blue	10	1,246
Sandstone	4	1,250
Clay, blue	3	1,253
Clay, blue, and gravel	9	1,262
Slate, blue, and clay	8	1,270
Clay, blue	42	1,312
Sand rock, hard	4	1,316
Clay and sandstone	7	1,323
20/28-1bd		
Clay	2	2
Sand	1	3
Clay, sandy	107	110
Sand, medium	10	120
Clay, sandy	75	195
Sand, medium	5	200
Clay, sandy	145	345
Sand and gravel	12	357
Basalt rock	25	382
Gravel, cemented	158	540
Rock, broken	37	577
Unconsolidated rock, conglomerate	50	627
20/29-30ccc		
Dune sand, gray, mostly very fine to fine-grained, small percent medium grained, rounded to subangular particles mostly quartz with 10 to 15% lithic fragments, black, brown, red (probably basalt and rhyolite) contains a small amount of silt	18.8	18.8
Silt, brown, low plasticity, fairly dense; contains a low plasticity, fairly dense; contains a low percent of very fine, micaceous sand	4.2	22
Clay, gray, firm, moderately to highly plastic, moderately consolidated; contains less than 5% very fine black sand	14.4	36.4
Sand, very fine to medium-grained, 75% quartz and 25% lithic fragments (volcanics), rounded to subrounded particles, loose, drills fast	3	39.4
20/29-30ccc--Continued		
Clay, gray, highly plastic	.6	40
Sand as described from 36.4 to 39.4	2.4	42.4
Clay, brown at upper contact with streaks of iron oxide changing to gray, moderately to highly plastic, soft	4.9	47.3
Organic clay, bluish black, very soft, plastic, has slight odor of decaying organic matter	8	55.3
Sand, fine to medium-grained, quartz and volcanic fragments in about equal proportions; particles rounded to subrounded	1.7	57
Clay, dark gray, highly plastic, slightly organic; contains a large percent of coarse sand from 62.0 to 63.0	6	63
Sand, medium to coarse-grained with occasional pea gravel; particles subangular to rounded, about equal proportions of quartz and black volcanic fragments; from 67.0 becomes medium-grained, well sorted	20.7	83.7
Organic clay, very soft, black tule deposit, has slight odor	1	84.7
Sand, medium-grained, as described from 67.0 to 83.7	7	91.7
Clay, greenish-gray, very dense, slightly to moderately plastic	2	93.7
Sand, medium-grained as described from 67.0 to 83.7	4.3	98
Clay, greenish-gray as described from 91.7 to 93.7	1	99
Sand, medium-grained as described from 67.0 to 83.7	1	100
Sand, medium-grained, fairly well-sorted, rounded to subangular particles of quartz and volcanic fragments	1.7	101.7
Clay, greenish-gray, dense, slight to moderate plasticity; changing to light brown clay, firm moderately plastic	3	104.7
Sand, medium to coarse-grained, same composition as sand from 99.0 to 101.7	2.3	107
Clay, light brown, dense moderately plastic; contains low percent of fine sand	6	113
Sand, light brown, black, red, white translucent particles, medium to coarse-grained, mostly coarse-grained, rounded to subangular particles of quartz and lithic fragments in about equal proportions. Thin clay interbed at 115.0 about 1-foot thick	16.2	129.2
Clay, brown, lean, slight to moderate plasticity, firm; contains about 5% fine sand. Changes to gray and becomes sandy from 135.0 to 138.7	9.5	138.7
Fat clay, light gray, highly plastic, firm, moderately consolidated. Becomes tight, dense, well consolidated from 145.0 to 147.0	8.3	147
Clay, dark gray to black, dense, well consolidated, slightly organis, highly plastic	2	149
Clay, dark greenish-gray, moderately plastic, moderately consolidated; contains 10 to 15% fine-grained sand	5	154
20/29-30ccc--Continued		
Sand, fine to medium-grained, few coarse grains, fairly well graded in fine and medium sizes; composed of estimated 60% quartz, 25% black fragments (basalt), 15% green, brown, red lithic fragments; particles are subrounded to angular	15	175
Sand, fine to coarse-grained, well graded; particles are subrounded to subangular, composition as above	7.5	182.5
Clayey sand, green gray, grading quickly to fat clay, moderately consolidated	1.5	184
Fat clay, gray, moderately consolidated, highly plastic. Becomes tight, drier, well consolidated from 186.0 to 189.0. Contains 5 to 10% fine-grained sand from 189.0 to 194.0	10	194
Sand, fine to coarse-grained with occasional pea gravel, predominantly medium-grained, particles rounded to angular, estimated 50% quartz with red, brown, tan, green lithic fragments, few black basalt particles. This sand has different appearance than previous sands.	6	200
Sand, poorly-graded, fine to coarse-grained with occasional pea gravel; particles rounded to angular, composition as above. From 216.0 to 221.8 becomes well-sorted, medium-grained	20	220
Sand, mostly medium-grained, fairly well sorted, composition as above	1.8	221.8
Sandy clay, gray, low to moderate plasticity, contains an estimated 25% fine sand	2.2	224
Sand, fine to medium-grained, composition as from 194.0 to 221.8	1	225
Clay, gray, moderate plasticity, contains low percent of fine sand	1	226
Sand, fine to medium-grained at upper contact becoming fine to coarse-grained with about 10% pea gravel; red, green, black lithic fragments, 50% quartz; particles rounded to subangular	7.8	233.8
Clay as from 225.0 to 226.0 alternating with fine to medium-grained sand, apparently occurring as thin beds of clay and sand; clay is moderately plastic	2.8	236.6
Sand, fine to medium-grained, 70% quartz, 30% red, brown, black, tan lithic fragments; particles rounded to subangular	3.4	240
Sand, fine to medium-grained to 245.0, 70% quartz, 30% lithic fragments, mostly volcanics, rounded to subangular, gradually becoming coarse grained below 245.0. About equal proportions of medium and coarse grains at 250. Predominantly coarse-grained at 253.0 and below with 5 to 10% pea gravel	25.7	265.7
Clay, brown, moderately plastic; contains 10 to 15% fine to medium-grained sand	1.8	267.5

(Continued)