

LITHOLOGIC LOGS OF WELLS
IN
IREDELL COUNTY, NORTH CAROLINA

CIRCULAR NUMBER 17

COMPILED BY
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INTRODUCTION

This report is a compilation of lithologic descriptions of drill cuttings collected from 198 water wells drilled in Iredell County. Much of the information contained herein was used in the preparation of Bulletin 23, "Preliminary Evaluation of the Groundwater Resources of Iredell County, North Carolina," scheduled for publication in 1978.

The wells were drilled by the air rotary method and range in depth from 21 to 575 feet. Approximately 60 percent of the wells are from 100 to 300 feet deep. Well locations are shown in figure 1.

The principal geologic units in Iredell County are: undifferentiated deposits of Triassic age; granite, diorite-gabbro, and granite-diorite of Paleozoic age; and mica schist, hornblende gneiss and mica-gneiss complex of Precambrian age. The geologic map (figure 1) shows the approximate extent of the units as determined from drill cuttings and limited field investigation. The units mapped are similar to those used by Stuckey and Conrad (1958) for the Geologic Map of North Carolina.

Well construction and production data and other characteristics are shown in Table 1. The table includes a page reference for the lithologic log of each well cited.

The drill cuttings were described by different hydrogeologists over a period of several years, resulting in differences in descriptive techniques and

terminology. An attempt was made to rewrite and organize the logs according to a standard format with only partial success. As a consequence, some logs may require more interpretation or may include less detail than others.

Many water-well contractors participated in the Iredell County investigation. Their assistance in collecting and saving drill cuttings was especially helpful. The cooperation of the following drilling companies is greatly appreciated:

Air Drilling Co., Anderson Well Drilling, Gene Aycock, Bainbridge and Dance Well Drilling, Inc., Carolina Well Drilling, J. Carl Chambers, Huffman Well and Pump Co., Kannapolis Well Drilling Co., Lassiter and Harkey Well Drilling Co., McCall Brothers, Inc., Mott Morrison, P and T Well Drilling, J. W. Parker, Albert W. Rogers, R. J. Russell Well Drilling, Stewart Pump and Well Co., Ray Taylor Well Drilling Co., Teague Well Drilling, Harrill Wiggins Well Co., Yadkin Well Co., Diamond Hill Well Co., and Hickory Well Drilling.

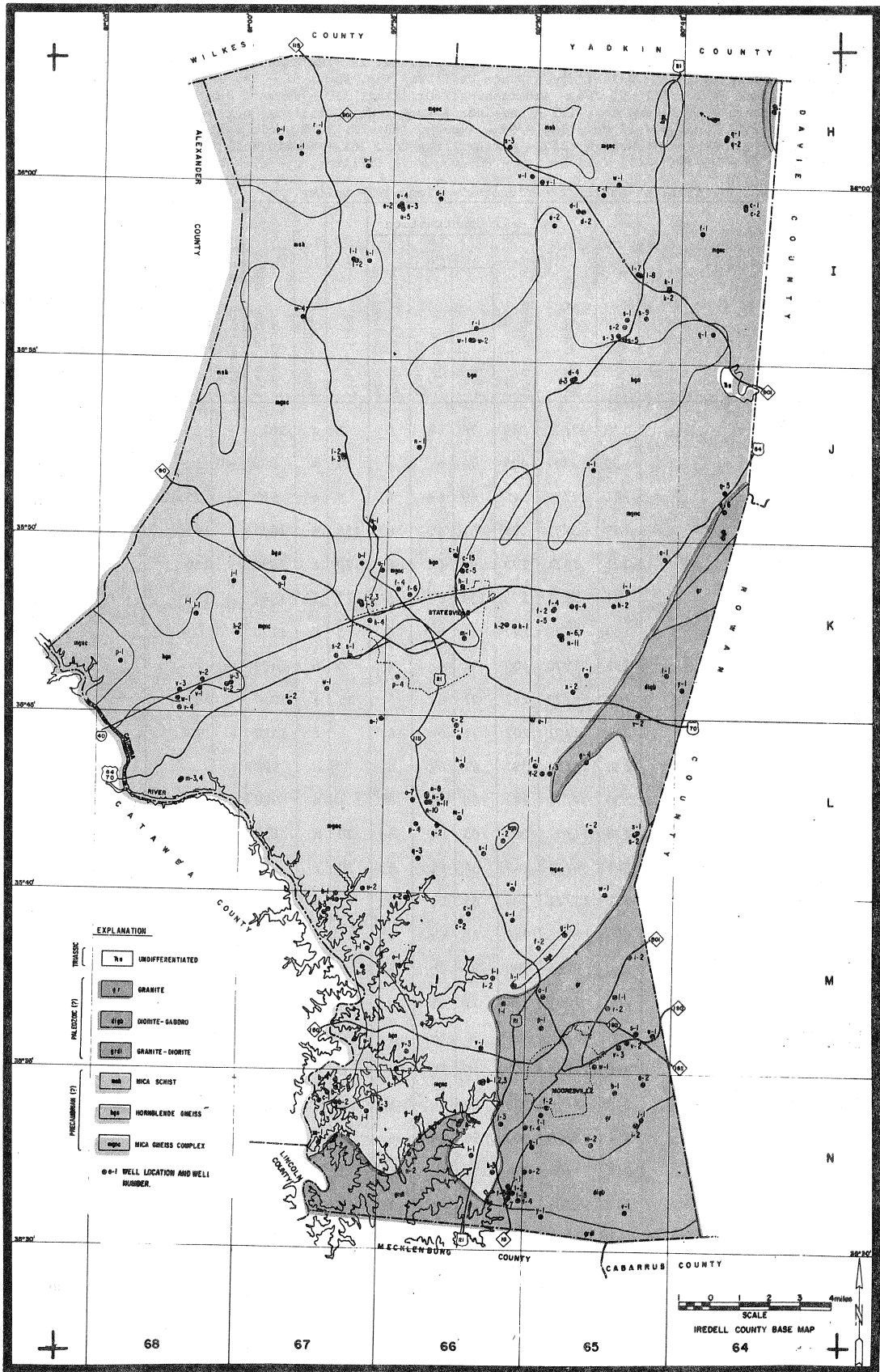


FIGURE 1. - GEOLOGIC MAP OF IREDELL COUNTY

Table 1. - Well construction data.

Drillers: 3 - McCall Brothers, Inc., 28 - Carolina Well Drilling, 29 - Huffman Well & Pump Co., 33 - Kannapolis Well Drilling Co., 37 - Bainbridge & Dance Well Drilling, Inc., 81 - Ray Taylor Well Drilling Co., 101 - Teague Well Drilling, 104 - Anderson Well Drilling, 110 - Stewart Pump & Well Co., 130 - J. Carl Chambers Well & Pump Co., 139 - Lassiter & Harkey Well Drilling Co., 155 - Mott Morrison, 175 - Harrill Wiggins Well Co., 186 - Gene Aycock, 189 - R. J. Russell Well Drilling, 219 - J. W. Parker, 223 - Albert W. Rogers, 244 - Air Drilling Co., 261 - Yadkin Well Co., 268 - P & T Well Drilling, a - Diamond Hill Well Co., b - Catawba Well Drilling, c - Hickory Well Drilling.

Topography: d - draw, f - flat, h - hill, r - ridge, s - slope, v - valley.

Well Location Number	Page Where Description Located	Owner	Driller	Date Completed	Well Construction					Topography	Elevation (feet above ms1)	Geophysical Log Data Available	Water Zones in Feet Below Land Surface	Remarks
					Depth of Well (feet)	Casing		Open Hole Diameter (inches)	Yield (gpm)					
						Depth (feet)	Diameter (inches)							
H64 q1	10	P. Joyner	33	12/71	345	78	6½	6	1½	s	1020	-	-	
H64 q2	10	P. Joyner	33	12/71	405	76	6½	6	17	s	970	-	-	
H65 w1	11	P. Dalton	261	12/70	144	60	6½	6	5	s	965	-	75,125	
H65 y1	11	J. P. Van Hoy	189	3/71	185	61	6½	6	150	s	1005	-	185	
H66 s3	12	R. York	101	1971	173	93	6½	6	120	f	1090	-	160	
H66 u1	12	U. Gregory	101	1971	173	139	6½	6	15	f	1040	-	160	
H67 p1	12	G. Ruppard	130	9/71	247	34	6½	6	3	f	1170	-	-	
H67 r1	13	S. Redmond	155	1970	400	-	-	6	0	h	1100	-	-	
H67 u1	13	E. Shumaker	101	2/70	242	22	6½	6	15	s	1050	-	235	
H67 x1	13	D. Welborn	244	2/71	202	71	6½	6	6	f	1120	-	197	
I64 c1	14	F. Reavis	130	11/71	337	41	6½	6	½	h	920	-	-	
I64 c2	14	F. Reavis	130	11/71	247	63	6½	6	1½	h	920	-	-	
I64 f1	15	K. Smith	130	11/71	187	65	6½	6	20	h	810	-	-	
I64 q1	15	Kivett Oil Co.	244	4/71	142	64	6½	6	30	r	905	-	-	
I65 c1	15	J. Sipes	261	11/71	304	85	6½	6	1	s	990	-	150	
I65 d1	16	Iredell Water Corp.	244	8/66	325	88	6½	6	18½	d	990	x	-	
I65 d2	16	Iredell Water Corp.	244	9/66	300	82	6½	6	2	d	990	x	-	
I65 e2	16	N. Allison	261	1/71	164	75	6½	6	4	s	1030	-	-	
I65 k1	17	W. Smith	244	12/70	405	30	6½	6	0	s	960	-	-	
I65 k2	17	W. Smith	244	12/70	247	20	6½	6	0	s	950	-	-	
I65 17	18	Iredell Water Corp.	244	5/70	300	80	6½	6	6	d	980	-	262	Abandoned
I65 18	18	Iredell Water Corp.	244	5/70	300	56	6½	6	20	d	975	-	67	
I65 s1	19	V. Green	244	9/66	300	117	6½	6	1	r	880	x	-	
I65 s2	20	R. Gaither	244	11/66	157	86	6½	6	4	d	925	x	-	
I65 s3	20	R. Gaither	244	9/66	300	82	6½	6	40	s	880	-	-	
I65 s5	20	Iredell Water Corp.	244	10/66	150	95	6½	6	100	d	885	-	-	Reported deepened to 300 ft.
I65 s9	21	Iredell Water Corp.	244	7/70	307	37	6½	6	127	d	900	x	55,128	
I66 d1	21	H. Johnson	189	3/71	140	74	6½	6	5	r	1035	-	135,140	
I66 e2	22	L. Hedrick	244	12/70	352	65	6½	6	0	h	1280	-	-	Abandoned
I66 e3	22	L. Hedrick	244	12/70	307	40	6½	6	0	s	1130	x	x	Abandoned
I66 e4	23	L. Hedrick	244	3/71	557	25	6½	6	0	h	1260	x	x	Abandoned

Table 1. - Well construction data - continued.

Well Location Number	Page Where Description Located	Owner	Driller	Date Completed	Well Construction				Yield (gpm)	Topography	Elevation (feet above msl)	Geophysical Log Data Available	Water Zones in Feet Below Land Surface	Remarks
					Depth of Well (feet)	Casing		Open Hole Diameter (inches)						
						Depth (feet)	Diameter (inches)							
I66 e5	23	L. Hedrick	244	3/71	457	80	6½	6	0	h	1200	-	-	Abandoned
I66 r1	24	W. Lowe	244	1/71	202	60	6½	6	15	s	860	-	127,157	
I66 w1	24	Iredell County Board of Education	c	12/64	300	108	6½	6	35	d	875	x	220	
I66 w2	25	Iredell County Board of Education	c	12/64	300	82	6½	6	4½	d	855	-	-	
I67 k1	25	T. Crater	130	4/71	200	38	6½	6	40	h	1000	-	-	
I67 l1	26	T. Crater	101	2/72	180	38	6½	6	60	h	1090	-	-	
I67 l2	26	T. Crater	101	2/72	198	47	6½	6	70	h	1080	-	190	
I67 w4	27	S. Williams	155	3/65	134	50	6½	6	10	s	1025	-	-	
J64 q5	27	Supreme Rabbit Ranch	189	1964	150	-	-	6	6	s	830	-	-	
J64 q6	28	Iredell Water Corp.	244	11/66	150	40	6½	6	3	d	800	x	-	
J65 d3	28	J. P. Stevens Co.	130	8/68	460	31	6½	6	15	s	820	-	-	
J65 d4	29	J. P. Stevens Co.	130	10/68	315	38	6½	6	35	s	825	-	-	
J65 n1	29	Providence Church	a	1965	152	58	6½	6	3½	s	900	-	105	
J66 n1	30	F. Pratt	244	1/71	157	47	6½	6	30	d	910	-	67,142, 155	
J67 l2	31	H. Crider	189	1970	245	49	6½	6	20	f	960	-	-	
J67 l3	31	H. Crider	189	1970	200	33	6½	6	20	f	960	-	-	
J67 u1	31	J. Williams	101	12/71	313	46	6½	6	2	h	915	-	140,280	
K64 y1	32	J. Johnson	244	1/71	67	20	6½	6	8	d	800	-	65	
K65 a1	32	Iredell Water Assoc.	244	12/66	300	25	6½	6	20	d	870	x	-	
K65 f2	33	L. Mount, Inc.	130	12/71	217	32	6½	6	60	s	905	-	-	
K65 f4	33	H. Lavender	130	10/71	202	57	6½	6	60	f	900	-	-	
K65 g4	34	Godfrey & Cole	130	2/72	157	87	6½	6	6	s	865	-	-	
K65 h2	34	J. Jolly	244	1/71	142	106	6½	6	8½	d	865	-	-	
K65 i1	35	J. Sheek	130	1/65	167	63	-	-	10	f	900	-	-	
K65 n6	35	N. Boan	244	4/71	142	96	6½	6	30	s	820	-	137	
K65 n7	35	N. Boan	244	4/71	157	109	6½	6	15	s	820	-	150	
K65 n11	35	R. Reavis	244	1/71	412	14	6½	6	5	d	800	-	262,408	
K65 o5	36	Isenhour Bldg. Co.	130	2/71	110	30	-	-	-	s	850	-	-	
K65 r1	36	C. Crist	189	8/71	240	80	6½	6	20	d	765	-	-	
K65 t1	37	S. Clendinen	130	1971	127	12	6½	6	4	s	770	-	-	
K65 v2	38	G. Warren	244	4/71	157	100	6½	6	10	h	850	-	-	
K65 x2	38	A. Edminston	244	4/71	97	80	6½	6	10	d	880	-	-	
K66 c1	38	C. Nicholson	130	1964	180	-	-	-	-	s	930	-	-	
K66 c5	38	Iredell Water Assoc.	244	6/70	307	40	6½	6	142	d	835	x	128	

Table 1. - Well construction data - continued.

Well Location Number	Page Where Description Located	Owner	Driller	Date Completed	Well Construction				Yield (gpm)	Topography	Elevation (feet above msl)	Geophysical Log Data Available	Water Zones in Feet Below Land Surface	Remarks	
					Depth of Well (feet)	Casing									
						Depth (feet)	Diameter (inches)	Open Hole Diameter (inches)							
M65 v2	77	R. Mabe	3	1/71	100	30	2	2	0	h	918	-	-	Abandoned	
M65 v3	77	D. McNeely	175	8/71	175	46	6½	6	8	f	905	-	145		
M65 w1	78	R. Ashley	175	10/71	375	74	6½	6	6	s	887	-	350		
M66 a1	78	T. Adams	189	3/72	205	107	6½	6	20	s	900	-	160,205		
M66 c1	79	O. Heaggans	175	8/71	125	-	6½	6	10	s	935	-	100		
M66 c2	79	J. Torrence	175	8/71	150	91	6½	6	6	s	910	-	120		
M66 e2	79	R. Daniels	130	4/71	247	120	6½	6	4	s	770	-	-		
M66 k1	80	R. Overcash	244	10/71	157	91	6½	6	5	s	910	-	156		
M66 l1	80	N. C. Dept. of Transportation	244	4/72	352	81	6	6	62	s	804	x	107,162 170,230 342		
M66 l2	81	N. C. Dept. of Transportation	244	4/72	412	45	6	6	23	d	776	x	170,279 388		
M66 o1	81	P. Peterson	3	9/71	150	45	6½	6	5	s	770	-	125		
M66 q2	82	R. Gilbert	110	1971	133	93	6½	6	8	s	870	-	-		
M66 t1	82	E. Davis	244	12/70	127	96	6½	6	60	s	900	-	122		
M66 v1	83	Exxon, Inc.	110	1971	212	84	6½	6	6	h	870	-	-		
M66 y2	83	H. West	3	3/71	77	48	2	2	9	s	790	-	70		
M66 y3	83	T. Hammond	3	4/71	75	54	2	2	7	s	775	-	70		
M67 b1	84	N. C. Div. of State Parks	244	11/66	300	74	6½	6	175	s	840	x	140,255 298		
M67 b2	84	N. C. Div. of State Parks	81	3/66	350	56	6½	6	2	v	840	-	-		Abandoned
M67 b3	85	N. C. Div. of State Parks	244	11/66	262	62	6½	6	23	d	780	x	75,79, 112,157		
M67 b4	86	N. C. Div. of State Parks	244	11/66	300	72	6½	6	0	s	790	-	-		Abandoned
M67 j1	86	H. Bryon	268	5/71	45	25	2	2	4	s	770	-	-		
M67 k6	87	P. Avery	130	5/65	254	66	6½	6	10	s	780	-	90,225		
M67 u1	87	J. Childers	3	1971	120	20	-	-	-	s	770	-	-		
N65 a2	87	J. Martin	104	4/72	106	83	2	2	5	f	815	-	-		
N65 b1	88	B. Levan	175	3/72	325	84	6½	6	25	f	865	-	270		
N65 f1	88	Duke Power Co.	3	3/71	220	100	6½	6	6	r	825	-	160		
N65 f2	89	L. Young	175	8/71	225	114	6½	6	25	s	850	-	185		
N65 f4	89	A. Miller	175	2/72	222	75	6½	6	8	f	875	-	162		
N65 i2	90	P. Hager	175	1/72	175	84	6½	6	10	f	840	-	135		
N65 j1	90	W. Stutts	33	9/71	345	63	6½	6	1½	s	795	-	-		
N65 m2	90	Meadowbrook Subd.	b	6/70	172	50	6½	6	-	s	780	x	172		
N65 o1	91	R. Munday	244	1/71	157	60	6½	6	3	s	830	-	149		

Table 1. - Well construction data - continued.

Well Location Number	Page Where Description Located	Owner	Driller	Date Completed	Well Construction				Yield (gpm)	Topography	Elevation (feet above msl)	Geophysical Log Data Available	Water Zones in Feet Below Land Surface	Remarks
					Depth of Well (feet)	Casing		Open Hole Diameter (inches)						
						Depth (feet)	Diameter (inches)							
N65 o2	91	E. Caldwell	101	12/71	248	70	6½	6	8	f	825	-	80,100	
N65 v1	92	P. Young	175	8/71	150	63	6½	6	12	r	820	-	120,170	
N65 y1	92	F. Nance	3	11/71	72	56	2	2	5	s	775	-	-	
N66 b1	92	P. Lambert	101	3/71	300	50	6½	6	0	h	855	-	-	Abandoned
N66 b2	93	P. Lambert	101	3/71	300	50	6½	6	0	h	855	-	-	Abandoned
N66 b3	93	P. Lambert	101	3/71	320	48	6½	6	6	h	850	-	315	
N66 e1	93	J. Maidens	33	1/71	225	42	6½	6	1½	s	770	-	-	
N66 f3	94	J. Lopez	101	1/74	400	123	6½	6	12	s	865	-	-	
N66 g1	94	J. Thomasson	3	3/71	130	68	6½	6	8	s	770	-	120	
N66 h2	95	A. Brown	139	3/71	105	87	6½	6	25	s	770	-	-	
N66 h3	95	P. Ellison	175	3/72	150	70	6½	6	20	s	780	-	150	
N66 j3	95	H. Miller	175	2/72	150	114	6½	6	8	s	860	-	115	
N66 k3	96	Caldwell Chapel AME Zion Church	3	4/71	95	63	2	2	4½	h	865	-	-	
N66 l1	96	L. Adams	104	2/71	90	48	2	2	5	s	795	-	-	
N66 n1	96	F. Ervin Bldg.	3	4/71	125	84	2	2	8	s	800	-	110	
N66 o2	97	R. Query	244	10/71	172	101	6½	6	6	s	770	-	170	
N66 r1	97	J. Davis	189	3/72	325	41	6½	6	4	s	790	-	200,325	
N66 t1	98	J. Frye	3	11/71	135	89	2	2	4	s	810	-	-	
N66 t2	98	B. Howell	3	11/71	115	84	2	2	4½	s	810	-	-	
N66 t3	99	J. Stafford	3	11/71	95	77	2	2	3	s	810	-	-	
N66 t4	99	S. Bailey	3	1/72	150	67	2	2	9	s	765	-	-	
N66 t7	99	A. Holthouser	28	12/73	155	64	6½	6	60	s	830	-	140,148	
N66 t8	100	D. Orbison	3	11/71	70	46	2	2	3	v	810	-	65	
N67 b2	100	J. Carter	101	1/71	100	63	3	2	4	s	775	-	70,80	
N67 b3	100	L. Cannon	3	9/71	115	84	2	2	3	s	790	-	110	
N67 b4	101	S. Elliott	3	10/71	96	89	2	2	3½	s	775	-	-	
N67 b5	101	D. McNeely	175	11/71	222	103	6½	6	10	s	770	-	182	
N67 c1	101	F. Ervin	175	1/72	575	28	6½	6	2	f	775	-	545	
N67 i2	102	J. Cranfill	3	12/71	65	44	2	2	4	s	780	-	-	
N67 i3	102	T. Sanders	-	-	60	50	-	-	-	s	770	-	-	
N67 i4	103	J. Pancoast	139	1/71	90	82	2	2	10	s	775	-	-	
N67 j1	103	G. Patterson	3	4/71	165	78	2	2	4	r	840	-	-	
N67 m1	103	J. Carpenter	3	3/71	70	45	2	2	8	d	770	-	60	

	Thickness (feet)	Depth (feet)
Well H66 s3		
Saprolite, grayish-orange to grayish-orange-pink, clay with some sand-sized grains, weathered grains of quartz, muscovite, orthoclase, biotite.....	10	10
Saprolite, very pale-orange to yellowish-gray, very fine sand to silt, chiefly weathered grains of quartz, muscovite, biotite and garnet. Sample not as weathered as at 10 feet	80	90
Mica gneiss, almost schistose, chiefly quartz, biotite, orthoclase, some plagioclase, muscovite, garnet, possibly small amount of hornblende, probably banded gneiss.....	30	120
Granite, chiefly quartz and feldspar, small amount of biotite, garnet, pyrite.....	10	130
Granite, chiefly quartz, orthoclase, muscovite, some biotite and garnet.....	10	140
Gneiss, fine-grained, chiefly quartz, orthoclase, muscovite, biotite, pyrite, some hornblende, garnet, chlorite.....	33	173
total depth - 173 feet		

Well H66 ul

Saprolite, grayish-orange, sandy clay, weathered grains of quartz, feldspar, muscovite, biotite.....	140	140
Granite, partially weathered, large fragments of quartz, probably from vein. Granite is chiefly quartz, orthoclase, muscovite, some biotite, garnet.....	33	173
total depth - 173 feet		

Well H67 p1

No sample.....	190	190
Mica schist, composed of quartz, muscovite, biotite, garnet....	10	200
Mica gneiss, composed of quartz, muscovite, biotite, garnet....	47	247
total depth - 247 feet		

	Thickness (feet)	Depth (feet)
Well H67 r1		
Saprolite, no sample.....	?	?
Bedrock, slightly weathered, probably a gneiss, granitic, fragments of quartz, feldspar, muscovite, biotite, horn- blende.....	?	25
Gneiss, possibly hornblende gneiss, finely crushed by bit action, includes quartz, feldspar, biotite and hornblende.	?	55

total depth - ?

	Thickness (feet)	Depth (feet)
Well H67 u1		
Saprolite, no sample.....	10	10
Partially weathered rock, contains fragments of quartz, feld- spar, biotite, muscovite, garnet.....	10	20
Granite, might be gneiss, chiefly quartz, orthoclase, musco- vite, biotite, garnet, pyrite.....	50	70
Mica gneiss, chiefly quartz, orthoclase, biotite, muscovite, some garnet and pyrite.....	150	220
Biotite gneiss, almost schistose, biotite percentage greatly increased, some hornblende also present, also quartz. muscovite, feldspar.....	10	230
Mica gneiss as at 220 feet.....	12	242

total depth - 242 feet

	Thickness (feet)	Depth (feet)
Well H67 x1		
Saprolite, no sample.....	10	10
Saprolite, pale yellowish-brown to moderate yellowish-brown, weathered to medium clayey sand and pebbles (5 to 8 mm), consists of mica (muscovite) and quartz fragments, soft, white pegmatite cuttings at 10, 30, 50 feet.....	60	70
Quartz, white, unweathered impregnated with massive layered mica (biotite) that appears black in cuttings, overall rock color is light-gray.....	132	202

total depth - 202 feet

	Thickness (feet)	Depth (feet)
Well I65 d1		
Saprolite, no sample.....	86	86
Gneiss, contains quartz, orthoclase, biotite, hornblende, muscovite, plagioclase, garnet, sphene, pyrite.....	179	265
Gneiss, contains quartz, feldspar, biotite, hornblende, mus- covite, pyrite, garnet. Hornblende increased from pre- vious samples. Sample is more schistose.....	35	300
Sample is generally biotite schist and some biotite gneiss, chiefly quartz, biotite, feldspar, hornblende, garnet, pyrite.....	5	305
total depth - 305 feet		

Well I65 d2		
Saprolite, no sample.....	82	82
Saprolite and weathered rock.....	18	100
Gneiss and some schist, chiefly quartz, feldspar, biotite, hornblende, muscovite, garnet, pyrite, some weathered cuttings in sample.....	50	150
Granite and some schist, composed of quartz, feldspar, biotite, muscovite, some hornblende, garnet, mica is in the schist.	100	250
Biotite gneiss, chiefly quartz, feldspar, biotite, some horn- blende, garnet, muscovite, pyrite, almost schistose, some weathering of mica causing iron staining of cuttings.....	56	306
total depth - 306 feet		

Well I65 e2		
Saprolite, light-brown to pale reddish-brown, clay containing a few fine to medium sand-sized grains of quartz.....	10	10
Saprolite, grayish-orange to dark yellowish-orange, clay and some sand, weathered grains of quartz and mica.....	50	60
Saprolite and weathered rock, color is pale yellowish-brown, partially weathered quartz, feldspar, hornblende, some mica.....	10	70

	Thickness (feet)	Depth (feet)
Well I65 e2 - continued		
Hornblende gneiss, partially weathered, contains quartz, feldspar, hornblende, some biotite, biotite increased from 100-110 feet.....	40	110
Hornblende gneiss as at 110 feet, not weathered, contains some epidote.....	54	164
total depth - 164 feet		

	Thickness (feet)	Depth (feet)
Well I65 k1		
Saprolite, grayish-orange to light-brown, clay contains some fine to medium sand-sized grains, weathered pieces of mica, quartz, feldspar.....	20	20
Granite, chiefly quartz, orthoclase, muscovite, some biotite, garnet, pyrite, chlorite.....	10	30
Granite or mica gneiss, chiefly quartz, orthoclase, biotite, muscovite, some garnet, pyrite, hornblende, biotite increased from previous sample, fine-grained.....	40	70
Granite gneiss similar to that at 70 feet, biotite has decreased making sample lighter-brown.....	110	180
Granite, chiefly quartz, orthoclase, fluorite (?), biotite....	30	210
Mica gneiss, quartz, feldspar, biotite, muscovite, some fluorite (?), garnet, small amount of hornblende, may be banded gneiss.....	180	390
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite, some garnet, fine-grained.....	15	405
total depth - 405 feet		

	Thickness (feet)	Depth (feet)
Well I65 k2		
Saprolite, grayish-orange, sand and clay, contains weathered pieces of quartz, mica, feldspar.....	10	10
Saprolite as at 10 feet, color is light-brown.....	10	20
Biotite gneiss, fine-grained, schistose, contains quartz, biotite, feldspar, garnet, small amount of hornblende.....	70	90

	Thickness (feet)	Depth (feet)
Well I65 k2 - continued		
Biotite gneiss as at 30 feet, schistose, hornblende increased.....	140	230
Biotite gneiss, granitic, consists of quartz, orthoclase, biotite, hornblende, muscovite, garnet.....	17	247
total depth - 247 feet		

Well I65 17		
Saprolite, dark yellowish-orange.....	40	40
Saprolite, grayish-orange.....	40	80
Granite gneiss, weathered, fine-grained, chiefly feldspar, some quartz and biotite.....	20	100
Granite, pinkish-gray, fine-grained, predominately quartz and feldspar, small amount of biotite, color is light brownish-gray to medium-gray at 115 feet depth.....	130	230
Granite, white to very light-gray, chiefly quartz and feldspar.....	20	250
Granite as at 115 feet depth.....	50	300
total depth - 300 feet		

Well I65 18		
Saprolite, light-brown clayey texture, small pieces of light-gray badly weathered granite.....	20	20
Saprolite, light-brown, clayey to slightly sandy texture, minute pieces of biotite mica.....	30	50
Saprolite as above and weathered to unweathered rock, white to gray to black, brown to pink staining on scattered pieces. Minerals include feldspar (orthoclase), hornblende, quartz. Casing set at 56 feet.....	10	60
Granite, white to light-gray, consisting of feldspar (orthoclase), quartz and biotite. About 20% medium light-gray gneiss, consisting of biotite, hornblende, quartz, and feldspar. Grayish-orange to light-brown stains on scattered cuttings. Water (20 gpm) at 65 feet depth.....	10	70

	Thickness (feet)	Depth (feet)
Well I65 18 - continued		
Gneiss, light- to medium-gray, consisting of biotite, quartz, and minor amounts of feldspar (orthoclase) and hornblende. About 20% granite as above. Scattered cuttings show stains.....	60	130
Granite, white to very light-gray, very fine-grained. Predominately feldspar, but small amount of quartz.....	30	160
Gneiss, medium-gray, fine-grained, consisting of biotite, quartz and feldspar, schistose from 200-210 feet.....	70	230
Gneiss, very light-gray to medium-gray, fine-grained. Biotite content very high with a lesser amount of feldspar (orthoclase) and some quartz.....	20	250
Granite, very light-gray, fine-grained, consisting of feldspar (orthoclase), quartz, small amount of biotite and very small amount of hornblende (?).....	20	270
Gneiss, medium- to dark-gray, very fine-grained, consisting of biotite and quartz. Scattered cuttings have a schistose texture.....	30	300
total depth - 300 feet		

Well I65 s1		
No sample.....	117	117
Gneiss, biotite, hornblende gneiss, partially weathered quartz, feldspar, biotite, hornblende, muscovite, pyrite, garnet.....	30	147
Chlorite gneiss, very fine-grained, almost aphanitic, contains quartz, feldspar, chlorite, hornblende, muscovite, pyrite noted from 222-237 feet.....	90	237
Hornblende gneiss, contains quartz, feldspar, hornblende, chlorite, muscovite.....	25	262
Granite, light-colored, contains quartz, orthoclase, plagioclase, hornblende, biotite, muscovite, some of orthoclase is pink-colored.....	38	300
total depth - 300 feet		

	Thickness (feet)	Depth (feet)
Well I66 e2		
Saprolite, grayish-red, silty to fine sand, contains fragments of weathered quartz and minor amounts of mica.....	30	30
Saprolite, light-brown, coarser than above, granules (2-4 mm) and very coarse sand, small pebbles (4-8 mm) from 40-50 feet.....	20	50
Saprolite and weathered rock, grayish-orange-pink to light-gray, predominately badly weathered quartz and decomposed mica.....	10	60
Saprolite, grayish-orange, weathered to quartz, silt and small amount of micaceous clay.....	20	80
Saprolite as at 80 feet depth except color is light olive-gray.....	10	90
Quartz, feldspar, biotite and muscovite, color ranges from clear to black, overall rock color is light-gray, rock more granitic than gneissic, biotite increases from 120-140 feet.....	90	180
Gneiss as from 90-180 feet, rock is more fine-grained from 180-200 feet, possible quartz veins at 210 feet and 260 feet.....	177	357

total depth - 357 feet

Well I66 e3

Saprolite, moderate yellowish-brown, weathered to clay texture.....	20	20
Saprolite, grayish-orange-pink, weathered to clay.....	10	30
Weathered rock, light-brown to medium light-gray, chiefly quartz, feldspar, biotite, hornblende.....	10	40
Mica gneiss, very light-gray to medium light-gray, chiefly quartz, biotite and small amount of feldspar, feldspar 25% of sample at 80 feet and 50% of sample at 160 feet and from 180-300 feet.....	260	300

total depth - 300 feet

	Thickness (feet)	Depth (feet)
Well I66 e4		
Saprolite, light-brown, contains weathered fragments of quartz and mica, weathered to silt and small pebbles, very little clay.....	20	20
Weathered rock.....	5	25
Quartz, feldspar and minor amounts of biotite and muscovite, overall color is light-gray but quartz is mostly clear and breaks into medium grains, weathering on two pieces of cuttings.....	205	230
Gradually changing to: feldspar, quartz, biotite, muscovite, and very minor amounts of chloritic material (greenish color on scattered minute pieces of rock), color ranges from white to black, small amount of pyrite, rock breaks into medium grains. With no abrupt change in units, the rock grades into a quartz-biotite gneiss and minor amounts of muscovite and feldspar until 410 feet depth.....	180	410
Quartz constitutes about 60-75% of the cuttings, feldspar, and mica (predominately biotite) make up rest of cuttings, color ranges from white to medium-gray.....	10	420
Very similar to first portion of the 230-410 feet depth.....	137	557
total depth - 557 feet		

Well I66 e5		
Saprolite, pale-red, weathered to a silty clay, contains minute weathered pieces of mica and quartz.....	10	10
Saprolite, light-brown to moderate yellowish-brown, sandy clay, contains pebbles (5 mm), weathered quartz.....	30	40
Saprolite, moderate yellowish-brown, clay, consists of weathered mica and no quartz.....	10	50
Saprolite as from 10-40 feet.....	20	70
Gneiss, very light- to dark-gray, medium-grained, chiefly quartz, feldspar, muscovite, some biotite and hornblende, slightly weathered.....	30	100
No sample.....	10	110

	Thickness (feet)	Depth (feet)
Well I66 e5 - continued		
Gneiss similar to that from 70-100 feet, finer-grained, texture is aplitic.....	50	160
Gneiss, medium-grained as from 70-100 feet, minor amount of chlorite schist at 170 feet, quartz and feldspar percentage increases from 230-260 feet.....	100	260
Granite gneiss, very light to light-gray, fine- to medium-grained, chiefly quartz, feldspar and minor amounts of biotite, aplitic from 300-310 feet.....	190	450
No sample.....	7	457
total depth - 457 feet		

Well I66 rl		
Saprolite, grayish-orange, texture ranges from clay at 10 feet to sandy clay at 40 feet, contains weathered grains of quartz, mica, feldspar.....	40	40
Weathered rock, chiefly quartz, feldspar and small amount of mica, very weathered.....	20	60
Mica schist and some mica gneiss, chiefly mica (biotite), quartz (10%) and feldspar (5%), medium dark-gray.....	40	100
Mica gneiss, consists of quartz (25%) biotite and feldspar, light-gray.....	50	150
Granite, white to light medium-gray, contains feldspar (50%), quartz (40%), mica (10%).....	20	170
Mica gneiss, very schistose, chiefly quartz and mica, small amount of feldspar, some rose quartz or garnet, some pyrite.....	20	190
Granite as from 150-170 feet.....	12	202
total depth - 202 feet		

Well I66 wl		
Saprolite, dark yellowish-orange, clay containing some sand-sized quartz grains, weathered mica and quartz.....	20	20
No sample.....	40	60

	Thickness (feet)	Depth (feet)
Well I66 w1 - continued		
Weathered rock, grayish-orange, weathered quartz, feldspar, mica.....	48	108
Gneiss, chloritic, contains quartz, orthoclase (pink), chlo- rite, biotite, muscovite, hornblende, olivine.....	52	160
Weathered schist, clay textured, color is yellowish-gray to pale-olive.....	20	180
No sample.....	28	208
Hornblende gneiss, chiefly quartz, orthoclase (pink to rose color), hornblende, olivine, water zone.....	-	208
No sample.....	92	300
total depth - 300 feet		

Well I66 w2		
Saprolite, light-brown, clay containing sand-sized grains of quartz.....	10	10
Saprolite, moderate yellowish-brown, sandy clay, weathered grains of quartz, feldspar, mica, hornblende.....	10	20
Saprolite as from 10-20 feet, not as weathered, color is grayish-orange.....	62	82
Hornblende gneiss, chiefly quartz, orthoclase, hornblende, some garnet, chlorite, biotite, some iron staining from 93-105 feet.....	43	125
Biotite gneiss, quartz, feldspar, biotite, hornblende, garnet.....	160	285
No sample.....	15	300
total depth - 300 feet		

Well I67 k1		
Saprolite, light-brown, silty clay.....	10	10
Saprolite, moderate yellowish-brown, sandy clay, weathered grains of mica and quartz.....	20	30

	Thickness (feet)	Depth (feet)
Well I67 k1 - continued		
Mica schist, chiefly quartz, biotite, muscovite, some garnet.....	10	40
Mica gneiss to mica schist, chiefly quartz, biotite, muscovite, some orthoclase, garnet.....	10	50
Mica gneiss as at 50 feet.....	40	90
Mica schist, gneissic, chiefly quartz, biotite, hornblende, some feldspar, muscovite, garnet.....	80	170
Mica gneiss, chiefly quartz, feldspar, biotite, muscovite....	10	180
Mica schist, chiefly quartz, biotite, some hornblende, muscovite.....	10	190
Mica gneiss, possibly banded gneiss, quartz, feldspar, biotite, some muscovite, hornblende.....	10	200
total depth - 200 feet		

Well I67 11

Saprolite, moderate reddish-orange to light-brown, clay.....	10	10
Saprolite, pale yellowish-brown, fine sand and clay, weathered grains of quartz, mica, feldspar.....	20	30
Mica gneiss, fine-grained, almost schist, chiefly quartz, biotite, some muscovite, hornblende.....	20	50
Pegmatite, chiefly orthoclase, quartz and muscovite, coarse-grained.....	5	55
Mica gneiss as at 50 feet, very schistose.....	115	170
Mica schist, quartz, biotite, hornblende, garnet.....	10	180
total depth - 180 feet		

Well I67 12

Saprolite, pale reddish-brown to moderate-brown, clay and some sand, weathered quartz and mica.....	10	10
Saprolite, moderate orange-pink to grayish-orange, not as weathered as at 10 feet, contains fragments of weathered quartz, mica, feldspar, sandy texture.....	10	20

	Thickness (feet)	Depth (feet)
Well I67 12 - continued		
Saprolite as at 20 feet, color is grayish-orange to pale yellowish-brown.....	20	40
Mica schist and some mica gneiss, chiefly quartz, biotite, some hornblende, feldspar, muscovite, some iron staining from weathering, very little iron staining from 50-60 feet, some garnet from 70-80 feet, small amount of chlorite from 90-100 feet.....	90	130
Mica schist, quartz, biotite, hornblende, garnet.....	50	180
Mica schist as at 180 feet, also probable quartz vein (half of sample is white quartz chips), driller's record indicates water zone at 190 feet.....	18	198
total depth - 198 feet		

Well I67 w4

No sample.....	85	85
Mica gneiss, some of sample is weathered, contains quartz, feldspar, biotite, some muscovite, garnet, some of weathered material might be hornblende.....	-	85
Mica gneiss, chiefly quartz, feldspar, biotite, some muscovite, garnet, some iron stained grains in sample.....	-	100
Mica gneiss as at 100 feet, small amount of pyrite noted.....	-	125
total depth - 134 feet		

Well J64 q5

No sample.....	35	35
Gneiss, chiefly quartz, feldspar, biotite, hornblende, some garnet, most of sample is iron stained, might be granite gneiss, less iron staining from 50-60 feet.....	55	90
No sample.....	60	150
total depth - 150 feet		

	Thickness (feet)	Depth (feet)
Well J64 q6		
No sample.....	48	48
Diorite (?), feldspar, quartz, biotite, muscovite, hornblende; feldspar may be plagioclase, may be gneiss; some lineation of minerals evident.....	102	150
total depth - 150 feet		

Well J65 d3		
No sample.....	50	50
Hornblende gneiss, contains quartz, orthoclase, plagioclase, hornblende, biotite, muscovite, garnet, about half of sample is iron stained, biotite and hornblende percentages are approximately equal, iron staining decreased at 75 feet, biotite decreased from 115-175 feet, no iron staining from 150-175 feet.....	125	175
Mica gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, muscovite, garnet, biotite fraction greater than hornblende fraction, hornblende increases from 200-210 feet and from 240-250 feet.....	75	250
Hornblende gneiss as at 175 feet, no iron staining.....	20	270
Mica gneiss and hornblende as at 250 feet, some iron staining.....	10	280
Hornblende gneiss as at 270 feet.....	20	300
Mica gneiss and hornblende as at 280 feet.....	20	320
No sample.....	10	330
Mica gneiss as at 280 feet.....	20	350
No sample.....	40	390
Mica gneiss as at 280 feet.....	50	440
No sample.....	20	460
total depth - 460 feet		

	Thickness (feet)	Depth (feet)
Well J65 d4		
No sample.....	45	45
Mica gneiss with hornblende, chiefly quartz, feldspar, biotite, hornblende, muscovite, garnet, hornblende increases from 75-85 feet.....	40	85
Granite gneiss, chiefly quartz, feldspar, biotite, muscovite, hornblende, some pyrite, garnet. Biotite and hornblende decreased from 85 feet.....	10	95
Granite, chiefly quartz, feldspar, muscovite, very small amount of biotite and hornblende, some iron stained material.....	10	105
Hornblende gneiss, chiefly quartz, hornblende, feldspar, biotite, some garnet, epidote.....	30	135
Mica gneiss with hornblende as at 85 feet, hornblende decreased in samples from 145-155 feet and 185-195 feet...	60	195
Granite as at 105 feet.....	5	200
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, garnet, muscovite, epidote, chlorite, pyrite.....	10	210
No sample.....	10	220
Hornblende gneiss as at 210 feet, hornblende fraction decreased from 230-270 feet.....	50	270
Gneiss, granitic, chiefly quartz, feldspar, muscovite, some biotite, hornblende and garnet.....	10	280
Gneiss, biotite has increased from 280 feet.....	10	290
Granitic gneiss as at 280 feet.....	10	300
No sample.....	15	315
total depth - 315 feet		

Well J65 n1

No sample.....	60	60
Gneiss, granitic, chiefly quartz, feldspar, biotite, hornblende, muscovite, some pyrite, most of sample slightly iron stained.....	20	80

	Thickness (feet)	Depth (feet)
Well J65 n1 - continued		
No sample.....	10	90
Hornblende-biotite gneiss, approximately equal fractions of hornblende and biotite, also contains quartz, feldspar, garnet, muscovite, part of sample is iron stained.....	10	100
Hornblende-biotite gneiss as at 100 feet, most of sample is iron stained, driller's record reports water zone at 105 feet.....	5	105
Biotite gneiss (mica gneiss), chiefly quartz, feldspar, biotite, chlorite, some muscovite, hornblende, pyrite, small portion of sample iron stained.....	5	110
Mica gneiss as at 110 feet, hornblende and chlorite decreased, garnet present, muscovite increased from 130-145 feet.....	42	152
total depth - 152 feet		

Well J66 n1

Saprolite, pale-brown, weathered to very-fine sandy soil consisting of muscovite and very minute pieces of weathered quartz, small amount of hornblende, minute pieces of weathered feldspar at 30 feet.....	40	40
Muscovite (40%), in massive layers appears black, quartz (30%), clear to opaque, some weathering, feldspar (30%), white, quartz increasing and feldspar decreasing from 50-60 feet.....	20	60
Quartz (60%), feldspar (20%) and mica (20%), aplitic.....	20	80
Predominately quartz impregnated by mica, overall color medium dark-gray, mica content increases from 90-100 feet, some weathering on scattered pieces from 100-110 feet.....	30	110
Quartz as at 80 feet, weathering continues.....	30	140
No sample.....	17	157
total depth - 157 feet		

	Thickness (feet)	Depth (feet)
Well J67 12		
No sample.....	50	50
Gneiss, light-gray, chiefly quartz, biotite, muscovite, small amount of feldspar, more micaceous at 100 feet depth than at 70 feet.....	50	100
Gneiss, medium-gray, chiefly quartz, feldspar, mica.....	10	110
Gneiss, very light-gray, quartz and mica predominate, small amount of feldspar, rock crushed finer by bit action from 120-140 feet.....	30	140
Gneiss, similar to that from 100-110 feet, small amount of hornblende and pink quartz.....	10	150
Gneiss, similar to that from 110-140 feet.....	30	180
Gneiss, light-gray, chiefly quartz, mica, small amount of feldspar, iron stains at 200 and 240 feet depths.....	60	240
No sample.....	5	245

total depth - 245 feet

Well J67 13		
No sample.....	40	40
Gneiss, light bluish-gray to medium-gray, chiefly quartz, feldspar, biotite, some hornblende, medium- to coarse- grained.....	110	150
Gneiss, similar to that from 40-150 feet, light minerals (quartz and feldspar) increased, very light-gray.....	10	160
Gneiss, similar to that from 40-150 feet.....	40	200

total depth - 200 feet

Well J67 ul		
Saprolite, moderate yellowish-brown, weathered grains of mica, quartz, clay with some sand.....	10	10
Saprolite as at 10 feet, color changed to grayish-orange.....	10	20

	Thickness (feet)	Depth (feet)
Well J67 ul - continued		
Saprolite, pale yellowish-brown, clayey to fine sand texture, consists of weathered grains of mica, quartz, hornblende.....	20	40
Mica gneiss, partially weathered, contains quartz, feldspar, biotite, muscovite, some hornblende.....	10	50
Hornblende gneiss, unweathered, chiefly quartz, feldspar, hornblende, biotite, epidote.....	60	110
Granite, composed of quartz, orthoclase, biotite, muscovite, some orthoclase is pink.....	20	130
Hornblende gneiss as at 110 feet.....	20	150
No sample.....	10	160
Mica gneiss, chiefly quartz, feldspar, biotite, some hornblende, epidote, chlorite. Hornblende increased from 180-200 feet, some garnet present.....	40	200
Hornblende gneiss, composed of quartz, feldspar, hornblende, biotite, epidote, garnet, chlorite.....	100	300
No sample.....	13	313
total depth - 313 feet		

Well K64 y1

No sample.....	20	20
Quartz, feldspar and mica, finely crushed by bit action, rock is soft, overall color is greenish-gray, some minute pieces show brownish stains.....	47	67
total depth - 67 feet		

Well K65 a1

No sample.....	25	25
Biotite gneiss, chiefly quartz, feldspar, biotite, garnet. Muscovite present from 35-60 feet.....	35	60
Muscovite gneiss, chiefly quartz, feldspar, muscovite, garnet, biotite, could be a granite gneiss.....	25	85

	Thickness (feet)	Depth (feet)
Well K65 a1 - continued		
Biotite gneiss, contains quartz, feldspar, biotite, garnet, muscovite.....	10	95
Quartz vein and small amount of biotite and garnet.....	10	105
Muscovite gneiss as at 85 feet.....	15	120
Biotite gneiss as at 95 feet, some hornblende in sample. Hornblende decreased from 175-200 feet.....	105	225
Gneiss, granitic, chiefly quartz, feldspar, muscovite, bio- tite, hornblende, garnet, some iron staining.....	10	235
Biotite gneiss as at 225 feet.....	65	300
total depth - 300 feet		

Well K65 f2		
Saprolite, grayish-orange, clay and some sand, consists of weathered grains of quartz, feldspar, mica, hornblende..	10	10
Saprolite as at 10 feet, color is grayish-orange to grayish orange-pink.....	30	40
Biotite gneiss, contains quartz, feldspar, biotite, garnet, some muscovite, some hornblende.....	10	50
No sample.....	10	60
Biotite gneiss as at 50 feet.....	150	210
No sample.....	7	217
total depth - 217 feet		

Well K65 f4		
Saprolite, moderate orange-pink, sandy clay, consists of weathered grains of feldspar, quartz, mica.....	10	10
Saprolite, pale yellowish-brown, sandy clay, chiefly weathered quartz and mica.....	40	50
Biotite gneiss, chiefly quartz, feldspar, biotite, muscovite, garnet, small amount of hornblende, some pyrite from 70-80 feet.....	130	180

	Thickness (feet)	Depth (feet)
Well K65 f4 - continued		
Mica gneiss, chiefly quartz, feldspar, muscovite, biotite, some garnet, some pyrite.....	10	190
Mica gneiss as at 190 feet, biotite fraction increased, iron staining present on half of sample, probable water zone.	12	202
total depth - 202 feet		

Well K65 g4		
Saprolite, light-brown, clay and some fine sand, weathered grains of quartz, mica.....	10	10
Saprolite, light-brown, clayey sand, weathered grains of mica, quartz, feldspar.....	10	20
Saprolite as at 20 feet, color is grayish-orange.....	10	30
Saprolite as at 20 feet, color is grayish-orange to pale yellowish-brown.....	40	70
Biotite gneiss, partially weathered and iron stained, chiefly quartz, biotite, feldspar, muscovite, hornblende, garnet, some tremolite or spodumene from 110-120 feet, some magnetite from 130-140 feet, small amount of spodumene and garnet from 140-150 feet.....	87	157
total depth - 157 feet		

Well K65 h2		
Saprolite, grayish-orange, clayey texture, weathered minute pieces of quartz and mica.....	100	100
Saprolite as at 100 feet, minute amount of light-gray, soft rock composed chiefly of quartz.....	10	110
Quartz, feldspar and lesser amount of mica, overall color is light bluish-gray, some of rock is weathered and stained brownish.....	10	120
Quartzite, light-gray, very hard, massive textured.....	10	130
Quartzite as at 130 feet, minor amounts of mica and quartz in scattered pieces, some pyrite noted.....	12	142
total depth - 142 feet		

	Thickness (feet)	Depth (feet)
Well K65 i1		
No sample.....	95	95
Gneiss, granitic, chiefly quartz and feldspar, some biotite, chlorite, muscovite, small amount of hornblende, garnet, most grains iron stained.....	15	110
Gneiss as at 110 feet, might be a chlorite gneiss, some iron staining, some pyrite.....	45	155
No sample.....	12	167
total depth - 167 feet		

Well K65 n6		
Saprolite, grayish-orange, fine sand and clay, contains weathered grains of quartz, feldspar, mica.....	40	40
Saprolite as at 40 feet, color is very pale-orange.....	50	90
Granite, chiefly quartz, feldspar, biotite, muscovite, some hornblende, some magnetite, some iron staining, pyrite..	52	142
total depth - 142 feet		

Well K65 n7		
Saprolite, pale yellowish-orange to grayish-orange, sand and some clay, chiefly weathered grains of quartz and feldspar.....	30	30
Saprolite, grayish-orange to pale yellowish-orange, clay and some sand.....	80	110
Chloritic gneiss, chiefly quartz, feldspar (orthoclase is pinkish colored) and chlorite, some hornblende, biotite, pyrite.....	47	157
total depth - 157 feet		

Well K65 n11		
No sample.....	5	5
Quartzite, medium light-gray to light bluish-gray, fine-grained, chiefly quartz and a small amount of feldspar and pyrite, some of quartz is rose-colored.....	65	70

	Thickness (feet)	Depth (feet)
Well K65 n11 - continued		
Quartz and feldspar, orthoclase (?), feldspar is pink, sample finely crushed by bit action.....	60	130
Quartz and feldspar, varied from light-gray to grayish-purple, small amount of mica at 150 feet.....	50	180
Quartzite, quartz and feldspar, light bluish-gray, some rose quartz, medium-grained, coarse-grained at 220 feet.....	80	260
Quartz and feldspar, varied from light-gray to grayish-purple, small amount of mica, scattered iron staining.....	150	410
total depth - 410 feet		

Well K65 o5		
Saprolite, light-brown, sandy clay texture, weathered fragments of quartz, mica, feldspar.....	10	10
Saprolite, grayish-orange, silty sand texture, weathered fragments of quartz, mica (muscovite), feldspar.....	10	20
Saprolite, pale yellowish-brown, silty sand texture, weathered fragments of quartz, feldspar, mica (mica flakes to 5 mm diameter).....	10	30
Hornblende gneiss, quartz, orthoclase, plagioclase, hornblende, biotite, garnet, muscovite, most of sample is iron stained.....	20	50
Mica gneiss, quartz, feldspar, biotite, muscovite, hornblende, some iron staining.....	20	70
Mica gneiss, quartz, feldspar, biotite, hornblende, some muscovite.....	30	100
Chlorite gneiss, quartz, feldspar, chlorite, muscovite, some biotite, garnet.....	10	110
total depth - 110 feet		

Well K65 r1		
Saprolite, pale-red to grayish-orange, silt and some sand, generally weathered mica and some weathered quartz and feldspar.....	10	10

	Thickness (feet)	Depth (feet)
Well K65 r1 - continued		
Saprolite, light-brown, silt and fine sand, weathered grains of mica and quartz.....	10	20
No sample.....	10	30
Saprolite, pale yellowish-brown, weathered grains of mica, quartz, feldspar.....	50	80
Mica gneiss, almost schist, chiefly quartz, biotite, some feldspar, some reddish clay contaminating sample.....	10	90
Mica gneiss as at 90 feet, very fine-grained, almost schistose, small amount of iron staining.....	50	140
No sample.....	10	150
Mica gneiss as at 140 feet.....	20	170
Mica gneiss, banded, not as schistose as at 170 feet, chiefly quartz, feldspar, biotite, some pyrite.....	10	180
Mica gneiss, sample much finer-grained than at 180 feet, contains quartz, feldspar, biotite, hornblende.....	10	190
No sample.....	10	200
Hornblende gneiss and biotite, chiefly quartz, feldspar, hornblende, biotite, some pyrite, evidence of banding in sample.....	10	210
Hornblende gneiss as at 210 feet, contains some chlorite, less biotite.....	20	230
No sample.....	10	240
total depth - 240 feet		

Well K65 t1		
No sample.....	90	90
Diorite or quartz diorite, medium-grained, chiefly plagioclase, hornblende, quartz, some biotite, chlorite, pyrite.....	10	100
Diorite, fine- to medium-grained, chiefly plagioclase, hornblende, quartz, some biotite.....	10	110
No sample.....	17	127
total depth - 127 feet		

	Thickness (feet)	Depth (feet)
Well K65 v2		
Saprolite, light-brown color, clay and some sand, weathered grains of quartz, hornblende, some bands of clay of very pale-orange color.....	90	90
Diorite, slightly iron stained, consists of quartz, feldspar, (plagioclase), chlorite, olivine, hornblende, biotite, muscovite.....	67	157
total depth - 157 feet		

Well K65 x2		
Saprolite, moderate orange-pink to grayish-orange color, clay and some sand, chiefly weathered feldspar, quartz, mica.....	10	10
Saprolite as at 10 feet, color from moderate reddish-orange to light-brown.....	60	70
Granite, chiefly quartz, feldspar, some biotite, muscovite, aplitic texture, overall color is white to light-brown caused by iron staining.....	27	97
total depth - 97 feet		

Well K66 c1		
No sample.....	100	100
Hornblende gneiss, slightly iron stained, chiefly quartz, feldspar, hornblende, biotite.....	20	120
Hornblende gneiss, no iron staining, chiefly quartz, feldspar, hornblende, biotite, garnet.....	15	135
No sample.....	45	180
total depth - 180 feet		

Well K66 c5		
Saprolite, grayish-orange to light-brown, very fine sand to silt, small amount of clay.....	48	48
Gneiss, granitic, light bluish-gray, fine-grained, massive, some of quartz has green tint.....	22	70

	Thickness (feet)	Depth (feet)
Well K66 c5 - continued		
Granite, gneissic, bluish-white, chiefly orthoclase and quartz, small amount of mica, medium-grained, some pyrite at 100 feet depth, mica increases at 90 feet depth, mica decreases at 130 feet depth.....	80	150
Granite gneiss, very light-gray, medium-grained, chiefly orthoclase and quartz, some mica.....	10	160
Gneiss, granitic, light-gray, mica increased from 150-160 feet depth.....	20	180
Granite gneiss as from 150-160 feet depth.....	10	190
Gneiss, granitic, light bluish-gray, fine-grained, some of quartz has green tint.....	10	200
Granite gneiss, predominately light bluish-gray, some pieces are greenish-gray, chiefly quartz, orthoclase and mica.....	50	250
Hornblende gneiss, medium bluish-gray, chiefly hornblende, quartz, feldspar.....	20	270
Granite, pinkish-gray to light-gray, chiefly quartz, feldspar, some hornblende.....	10	280
Hornblende gneiss, medium bluish-gray, chiefly hornblende, quartz, feldspar.....	12	292
total depth - 292 feet		

Well K66 c15

Saprolite, grayish-orange sandy silt. Consists of weathered fragments of quartz, feldspar, some mica.....	10	10
Saprolite as at 10 feet, some vermiculite, large flakes of muscovite in sample from 50-60 feet.....	70	80
Chlorite gneiss, consists of quartz, chlorite, orthoclase, plagioclase, biotite, muscovite, pyrite. Feldspar color is white. Orthoclase color turning pink from 90-100 feet. Biotite fraction increases from 100-120 feet. Hornblende present from 120-130 feet.....	50	130
Chlorite-hornblende gneiss, medium-grained, consists of quartz, orthoclase, chlorite, hornblende, small amounts of biotite, plagioclase, pyrite.....	10	140

	Thickness (feet)	Depth (feet)
Well K66 c15 - continued		
Hornblende gneiss, medium- to fine-grained, chiefly orthoclase, quartz, hornblende, chlorite, some pyrite, biotite, plagioclase and muscovite. Orthoclase color is various shades of pink. Chlorite fraction increases from 170-180 feet. Biotite fraction increases from 180-190 feet.....	50	190
Mica gneiss (biotite gneiss), consists chiefly of quartz, orthoclase, biotite, chlorite. Also contains some hornblende, plagioclase, pyrite and epidote associated with the biotite. Orthoclase color varies from white to pink.....	10	200
Granite, fine-grained, pinkish color, consisting of quartz, orthoclase and small amount of biotite and muscovite. Also contains layer or zone in granite of biotite schist consisting of biotite, quartz, chlorite, epidote and small amount of hornblende.....	10	210
Granite as at 210 feet. Granitic rock intermixed with biotite schist or biotite gneiss.....	10	220
Biotite gneiss, medium- to fine-grained. Consists of quartz, orthoclase, biotite and some chlorite, pyrite, muscovite and epidote. Limonite present from 220-240 feet. Small amount of garnet from 280-300 feet.....	80	300
total depth - 300 feet		

Well K66 f4

Saprolite, yellowish-gray, weathered sand, contains fragments of quartz, feldspar, mica.....	10	10
Contaminated samples.....	50	60
Biotite gneiss, contains quartz, biotite, plagioclase, orthoclase, some olivine. May be interbedded with biotite schist.....	10	70
Hornblende gneiss, contains quartz, hornblende, biotite, plagioclase, percentage of dark minerals varies throughout interval.....	40	110
Biotite gneiss, contains quartz, orthoclase, plagioclase, biotite, some hornblende, orthoclase color varies from white to pink.....	47	157
total depth - 157 feet		

	Thickness (feet)	Depth (feet)
Well K66 f6		
Saprolite, grayish-orange to light-brown, sandy clay, clay matrix and medium sand-size weathered grains of mica, quartz, feldspar, hornblende.....	10	10
Saprolite as at 10 feet, light-brown color.....	10	20
Saprolite, pale yellowish-brown to grayish-orange, sandy micaceous clay, contains weathered mica and some quartz, feldspar, hornblende.....	20	40
Gneiss, chiefly quartz, feldspar, hornblende, biotite, some garnet, chlorite, magnetite, iron stained, 20% dark minerals. No iron staining from 50-60 feet.....	20	60
Biotite gneiss, chiefly quartz, feldspar, biotite, small amounts of garnet, hornblende, pyrite, magnetite, 25% dark minerals.....	10	70
Biotite gneiss as at 70 feet, biotite decreased, some muscovite noted, 10% dark minerals.....	10	80
Biotite gneiss as at 70 feet.....	20	100
Gneiss, chiefly feldspar, quartz, biotite, hornblende, some muscovite, chlorite, garnet, pyrite, magnetite, 30% dark minerals.....	25	125

total depth - 125 feet

Well K66 h1

Saprolite, light-brown to pale reddish-brown, clay and some sand, contains weathered grains of mica, quartz, feldspar.....	10	10
Saprolite, grayish-orange, silt to fine sand-size grains, contains weathered grains of mica, quartz, feldspar (kaolinite), hornblende. Weathering not as complete and grain size larger from 60-70 feet.....	50	60
Biotite gneiss, weathered, contains quartz, feldspar, biotite, some hornblende, muscovite, garnet, pyrite.....	10	70
Biotite gneiss, some iron staining, chiefly quartz, feldspar, biotite, hornblende, some muscovite, garnet, pyrite; orthoclase color is pinkish; lineation of grains present	10	80

	Thickness (feet)	Depth (feet)
Well K66 h1 - continued		
Biotite gneiss as at 80 feet, may be granite gneiss.....	40	120
Hornblende gneiss with biotite, chiefly quartz, hornblende, feldspar, biotite, some muscovite, pyrite, fine-grained, dark-colored.....	10	130
Biotite gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, some garnet, pyrite.....	46	176
total depth - 176 feet		

Well K66 k1		
Saprolite, no sample.....	60	60
Biotite gneiss, contains quartz, orthoclase, plagioclase, biotite, some hornblende.....	80	140
Biotite gneiss, contains quartz, orthoclase, plagioclase, biotite, muscovite, some hornblende, garnet, some py- rite at 200 feet.....	100	240
No sample.....	10	250
total depth - 250 feet		

Well K66 k2		
Saprolite, grayish-orange, silt to fine sand, chiefly weath- ered grains of quartz, mica, feldspar.....	40	40
Saprolite as at 10 feet, grain size increases to fine sand but contains some coarse sand and silt.....	70	110
Gneiss, granitic, contains quartz, feldspar, muscovite, chlorite, biotite, hornblende, garnet, portion of sample is iron stained. Hornblende increases from 120-130 feet.....	32	142
total depth - 142 feet		

Well K66 m1		
No sample.....	170	170

	Thickness (feet)	Depth (feet)
Well K66 ml - continued		
Feldspar, white, quartz, white to green to clear, brown stains on some of the clear quartz pieces, muscovite in small quantity, black hornblende. Cuttings crushed to a very coarse texture by bit action. More of cuttings have brown stains at 200 feet depth, giving a brownish-gray color to sample.....	31	201
total depth - 201 feet		

Well K66 p4		
No sample.....	136	136
Granite gneiss, chiefly quartz, feldspar, biotite, hornblende, muscovite, some garnet, pyrite, small amount of iron staining. Sample more granitic at 155 feet, biotite and hornblende fractions decrease. More iron staining from 168-197 feet.....	61	197
total depth - 197 feet		

Well K67 a1		
Saprolite, light-brown to grayish-orange, sandy clay, weathered grains of quartz, mica, feldspar.....	20	20
Saprolite, pale yellowish-brown, sandy texture, grains of quartz, biotite, feldspar, garnet, weathered much less than at 20 feet.....	10	30
Biotite gneiss, some iron staining, chiefly quartz, biotite, feldspar, garnet, fine-grained. Biotite decreased from 40-50 feet.....	20	50
Biotite gneiss, biotite increased from 50 feet, hornblende now present, composed of quartz, feldspar, biotite, hornblende, some chlorite.....	10	60
Hornblende gneiss, very iron stained, chiefly feldspar, hornblende, quartz, some biotite, chlorite, some quartz crystals in sample, may have been a vein lined with quartz crystals in interval.....	10	70
Biotite-chlorite gneiss, some iron staining, chiefly quartz, feldspar, biotite, chlorite, muscovite, pyrite.....	10	80

	Thickness (feet)	Depth (feet)
Well K67 a1 - continued		
Hornblende gneiss, some iron staining, chiefly quartz, feldspar, hornblende, chlorite, biotite.....	20	100
No sample.....	10	110
Hornblende gneiss as at 100 feet, hornblende increased, chlorite decreased.....	30	140
Granite, very iron stained, chiefly quartz and feldspar, some biotite, muscovite, hornblende.....	7	147
total depth - 147 feet		

Well K67 b1		
Saprolite, moderate yellowish-brown, clayey sand, chiefly weathered grains of mica and quartz.....	20	20
Biotite gneiss and some hornblende, chiefly quartz, feldspar, biotite, hornblende, muscovite, garnet. Hornblende decreases from 40-50 feet, from 60-70 feet and from 110-112 feet.....	92	112
total depth - 112 feet		

Well K67 g1		
Saprolite, pale yellowish-brown to grayish-orange, sand and some clay, weathered grains of mica, quartz, feldspar, some hornblende.....	10	10
Saprolite, light olive-gray, weathered grains of quartz, feldspar, hornblende, biotite.....	20	30
Gneiss, chiefly quartz, feldspar, hornblende, biotite, probably a biotite gneiss.....	10	40
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, garnet. Biotite increases from 130-300 feet.....	260	300
total depth - 300 feet		

	Thickness (feet)	Depth (feet)
Well K67 j2		
Saprolite, moderate yellowish-brown, sandy clay texture, weathered fragments of quartz, biotite.....	25	25
Saprolite, grayish-orange, sandy clay texture, weathered fragments of quartz, feldspar, biotite.....	30	55
Biotite gneiss, contains quartz (clear to pink), feldspar, biotite, some hornblende, cuttings finely ground by bit action.....	35	90
Biotite gneiss, contains quartz (clear to yellow), feldspar, biotite, some hornblende, garnet.....	60	150
total depth - 150 feet		

Well K67 j3		
Saprolite, grayish-orange, sandy clay texture, contains abundant mica flakes, weathered fragments of quartz and feldspar.....	60	60
No sample.....	20	80
Mica gneiss, contains quartz, orthoclase, biotite, plagioclase, hornblende, contains 20% dark minerals, lineation of biotite grains visible in samples at 80, 220, 230 feet, olivine (?) at 270 feet.....	242	322
total depth - 322 feet		

Well K67 j5		
Saprolite, grayish-orange, clay and some sand, chiefly weathered quartz, feldspar and mica.....	10	10
Saprolite, grayish-orange to yellowish-gray, sandy clay, mainly weathered mica and quartz.....	20	30
Saprolite, pale yellowish-brown, sandy clay, weathered quartz, mica (biotite), feldspar.....	10	40
Biotite gneiss, some iron staining, chiefly quartz, feldspar, biotite, some garnet, hornblende, muscovite. Less iron staining from 50-60 feet, most of sample iron stained from 60-70 feet, no iron staining from 70-80 feet.....	40	80
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite.....	20	100

	Thickness (feet)	Depth (feet)
Well K67 j5 - continued		
Biotite gneiss, chiefly quartz, feldspar, biotite, some muscovite, garnet, hornblende, pyrite, fine-grained.....	10	110
Biotite gneiss as at 110 feet, coarser-grained, some chlorite, hornblende increased from 110 feet. Garnet and biotite increased from 120-130 feet.....	20	130
Biotite gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, very little garnet, some orthoclase is pink colored from 150-160 feet.....	30	160
Biotite gneiss, chiefly quartz, feldspar, biotite, small amount of hornblende, garnet.....	12	172
total depth - 172 feet		

Well K67 k4

No sample.....	38	38
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, muscovite, garnet, some iron staining. Iron staining decreases at 45 feet and increases at 85 feet. Biotite and garnet increases from 70-85 feet..	47	85
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende, some garnet, muscovite, some iron staining. Iron staining increases from 105-114 feet. Very little iron staining from 120-126 feet.....	49	134
Biotite gneiss, chiefly quartz, biotite, feldspar, hornblende, some muscovite, garnet, some iron staining. Very little iron staining from 150-155 feet.....	43	177
Hornblende gneiss, chiefly quartz, hornblende, feldspar, some biotite, muscovite, garnet, pyrite, small amount of iron staining.....	15	192
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende, some muscovite, garnet, pyrite, small amount of iron staining. Very little hornblende in samples from 213-254 feet. Hornblende increased from 254-300 feet.....	108	300
total depth - 300 feet		

	Thickness (feet)	Depth (feet)
Well K67 s1		
No sample.....	84	84
Hornblende gneiss, chiefly quartz, feldspar, hornblende, chlorite, biotite, some iron staining.....	1	85
total depth - 85 feet		

Well K67 s2		
No sample.....	32	32
Gneiss, chiefly quartz and mica, some pyrite.....	1	33
Gneiss, chiefly quartz and mica.....	7	40
Gneiss, fine-grained, schistose, chiefly quartz and mica, some pyrite.....	40	80
Gneiss, chiefly mica and quartz, some pieces have greenish tint.....	10	90
Gneiss as from 40-80 feet.....	90	180
No sample.....	10	190
Gneiss as from 40-80 feet.....	215	405
total depth - 405 feet		

Well K67 w1		
No sample.....	99	99
Biotite schist and some biotite gneiss, chiefly quartz, biotite, some feldspar, muscovite, hornblende. Less hornblende from 130-145 feet. Some garnet and pyrite from 145-165 feet.....	66	165
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite, muscovite, chlorite. Some iron staining and garnet and pyrite from 185-195 feet.....	35	200
Granite gneiss, chiefly feldspar, quartz, some biotite, mus- covite, chlorite and pyrite.....	10	210

	Thickness (feet)	Depth (feet)
Well K67 w1 - continued		
Biotite gneiss, granitic, banded, chiefly feldspar, quartz, biotite, some muscovite, hornblende, pyrite.....	15	225
Biotite gneiss, almost schist, chiefly quartz, biotite, feldspar, muscovite, some hornblende, pyrite, chlorite..	20	245
total depth - 245 feet		

Well K67 x2		
Saprolite, grayish-orange-pink to pale-red, clayey sand, weathered quartz, feldspar, and mica.....	20	20
Saprolite, light-brown, clayey sand, weathered fragments of quartz, feldspar, mica.....	40	60
Biotite schist and biotite gneiss, chiefly quartz, biotite, some feldspar, entire sample slightly weathered and iron stained.....	20	80
Biotite gneiss and hornblende, iron stained, sample very fine-grained, consists of quartz, feldspar, biotite, hornblende.....	40	120
total depth - 120 feet		

Well K68 i1		
Saprolite, light-brown, clay and some sand, containing a few quartz grains.....	10	10
Saprolite, yellowish-gray to grayish-orange, sandy clay, weathered grains of quartz, mica, feldspar.....	40	50
Biotite gneiss, some iron staining, consists chiefly of quartz, feldspar, biotite, muscovite, some hornblende, garnet. Some kyanite in sample from 70-80 feet. Horn- blende increases from 90-100 feet. Hornblende and bio- tite increase from 110-120 feet and from 160-170 feet, producing a lighter color.....	120	170
Biotite gneiss as at 160 feet, darker in color.....	70	240
No sample.....	5	245
total depth - 245 feet		

	Thickness (feet)	Depth (feet)
Well K68 j1		
Saprolite, light-brown, chiefly weathered mica, quartz, feldspar, clayey sand.....	10	10
Saprolite, pale yellowish-brown, sandy clay texture, chiefly weathered mica and quartz. Biotite grains from 30-50 feet.....	40	50
Biotite gneiss, slightly weathered and iron stained, chiefly quartz, feldspar, biotite, muscovite. Some hornblende and garnet from 60-130 feet. Very little iron staining from 70-130 feet.....	80	130
Biotite gneiss, no hornblende, garnet increased, contains some mica schist, biotite decreased from 130 feet.....	10	140
Biotite gneiss as at 130 feet, biotite increased from 140 feet, some hornblende, iron staining from 160-170 feet.....	30	170
Biotite gneiss, chiefly quartz, feldspar, biotite, chlorite, some muscovite, hornblende, garnet, pyrite.....	15	185
total depth - 185 feet		

Well K68 k2		
Saprolite, moderate reddish-orange, weathered to silty clay consisting of weathered mica and fragments of quartz....	10	10
Saprolite as at 10 feet, weathering not as severe, mica stained to a grayish-yellow and constitutes about 75% of saprolite.....	30	40
Saprolite and weathered rock, overall rock color is grayish-orange, weathered to a slightly clayey medium-grained sand, many minute pieces of slightly weathered biotite and hornblende give a slight "pepper" effect to cuttings, sample mainly consists of quartz (75%) and feldspar (20%).....	5	45
Schist, quartz, biotite, hornblende (55, 30, 10%), overall color is medium dark-gray but biotite gives slight yellowish tint to rock, sample is pulverized by bit action, all weathering missing past 50 feet depth, small amount of feldspar in sample.....	35	80
Schist, similar to above, quartz (70%), biotite (20%), hornblende (10%), medium-gray color, sample finely pulverized	10	90
total depth - 90 feet		

	Thickness (feet)	Depth (feet)
Well K68 11		
Saprolite, light-brown, weathered fragments of quartz, feldspar, biotite.....	32	32
Biotite gneiss and hornblende, consists of quartz, feldspar, biotite, hornblende, garnet, small amount of pyrite, some iron staining.....	35	67
total depth - 67 feet		

	Thickness (feet)	Depth (feet)
Well K68 p1		
Saprolite, grayish orange-pink, weathered to clayey silt and very fine sand, contains fragments of quartz and mica.....	40	40
Saprolite, dark yellowish-orange, clayey silt, weathered fragments of quartz and mica.....	40	80
Saprolite, moderate yellowish-brown to light brownish-gray, clayey silt containing weathered particles of quartz and mica.....	30	110
Gneiss, light bluish-gray, banded, chiefly quartz, feldspar, biotite and hornblende.....	10	120
Gneiss, predominately quartz and mica, light-gray color, schistose at 140 feet.....	30	150
No sample.....	10	160
Gneiss as from 120-150 feet depth, more granitic at 180 feet.	20	180
Gneiss, medium-gray, chiefly quartz, mica, some feldspar, hornblende.....	40	220
Granite-schist complex, medium light-gray, chiefly quartz and mica, some feldspar.....	50	270
Gneiss, light bluish-gray, predominately quartz and minor amounts of mica, pink quartz at 290 feet depth.....	40	310
Gneiss, light bluish-gray, contains quartz, mica, hornblende, color varies from medium dark-gray to greenish-gray from 320-340 feet depth.....	80	390
total depth - 390 feet		

	Thickness (feet)	Depth (feet)
Well K68 u2		
Saprolite, pale yellowish-brown, clay and some sand, chiefly micaceous clay with quartz.....	20	20
Saprolite as at 20 feet, pale yellowish-brown to moderate yellowish-brown, mica flakes increasing in size from 40-50 feet, some light-brown clay present from 50-60 feet and from 100-110 feet, texture is sandy clay from 60-140 feet.....	120	140
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, chlorite, garnet, pyrite.....	10	150
No sample.....	20	170
Hornblende gneiss as at 150 feet.....	15	185
total depth - 185 feet		

Well K68 u3		
Saprolite, pale yellowish-brown, sandy clay, chiefly weath- ered mica fragments and some quartz.....	40	40
Saprolite as at 40 feet, texture is sandy silt.....	10	50
Saprolite as at 50 feet, color is grayish-orange.....	60	110
Hornblende gneiss, partially weathered and iron stained, chiefly quartz, feldspar, hornblende, biotite, garnet. Biotite increases from 130-160 feet.....	50	160
No sample.....	5	165
total depth - 165 feet		

Well K68 v1		
Saprolite, pale-red to grayish-orange, weathered to sandy clay; structure of parent rock still visible as differ- ences in weathered color of grains. Weathered grains of feldspar (kaolinite) present from 10-20 feet.....	20	20
Saprolite, grayish-orange, sandy clay, chiefly clay and grains of sand.....	30	50

	Thickness (feet)	Depth (feet)
Well K68 v1 - continued		
Saprolite, very pale-orange to grayish-orange, clayey sand, weathered grains of quartz, hornblende, mica, feldspar..	20	70
Weathered rock, pale yellowish-brown, chiefly weathered grains of quartz, feldspar, hornblende, biotite, garnet, sandy clay texture.....	10	80
Biotite gneiss, iron stained, chiefly quartz, biotite, feldspar, muscovite, garnet, nearly schistose.....	40	120

total depth - 120 feet

Well K68 v2

Saprolite, light-brown, clayey sand, chiefly weathered grains of quartz, feldspar, some weathered mica.....	10	10
Saprolite, grayish orange-pink, sandy clay, weathered quartz, feldspar, mica.....	10	20
Saprolite, similar to 20 feet, grayish-orange to grayish orange-pink color.....	30	50
Saprolite, grayish-orange. Weathered rock consists of some coarse sand-size grains and small pebbles; weathered fragments of quartz, feldspar, mica and hornblende (?)..	20	70
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite, muscovite, some hornblende, garnet, chlorite, magnetite. Iron staining from 80-90 feet. Biotite increases from 90-100 feet producing dark-gray color.....	30	100
Biotite gneiss, chiefly quartz, feldspar, biotite, epidote, some muscovite, garnet, pyrite; color is medium-gray....	10	110
Granite gneiss, light-gray, chiefly feldspar, quartz, muscovite, biotite, epidote, garnet. Biotite increases from 120-150 feet.....	40	150
Biotite gneiss, chiefly quartz, feldspar, biotite, some muscovite, epidote, garnet, hornblende. Dark minerals decrease, more granitic from 160-170 feet.....	20	170
Biotite gneiss, chiefly quartz, feldspar, biotite, epidote, some muscovite, hornblende. Epidote has increased from 170 feet. Some of quartz from 180-190 feet has a yellowish-gray color.....	20	190

	Thickness (feet)	Depth (feet)
Well K68 v2 - continued		
Biotite gneiss as at 110 feet. Small amount of hornblende from 250-280 feet. Small amount of iron staining from 270-280 feet.....	90	280
Biotite gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, muscovite, some garnet, almost schistose. Some iron staining from 300-310 feet. Hornblende decreases from 310-322 feet.....	42	322
total depth - 322 feet		

Well K68 v3		
No sample.....	17	17
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, garnet, slightly iron stained. No iron staining from 40-56 feet.....	39	56
No sample.....	17	73
total depth - 73 feet		

Well K68 v4		
Saprolite, grayish-orange, sandy clay, contains clay and weathered sand-size grains of quartz, hornblende, feldspar.....	40	40
Gneiss, chiefly plagioclase, orthoclase, quartz, hornblende, biotite, garnet, some pyrite, 20% dark minerals.....	20	60
Gneiss, granitic, chiefly orthoclase, quartz, some biotite, plagioclase, hornblende, pyrite, garnet, sphene, 5% dark minerals.....	40	100
Gneiss as at 60 feet, garnets decreased.....	30	130
Gneiss, chiefly feldspar, quartz, hornblende, biotite, chlorite, muscovite, 20% dark minerals. Some pyrite from 140-150 feet.....	30	160
Gneiss, chiefly orthoclase, quartz, muscovite, garnet, some hornblende, biotite, chlorite, pyrite, 10% dark minerals.....	90	250

	Thickness (feet)	Depth (feet)
Well K68 v4 - continued		
Gneiss, chloritic, chiefly feldspar, quartz, chlorite, muscovite, some biotite, hornblende, garnet, most of feldspar is plagioclase, 15% dark minerals, small amount of pyrite.....	100	350
Gneiss, dioritic, contains plagioclase, orthoclase, quartz, hornblende (?), biotite, muscovite, some chlorite, pyrite, 30% dark minerals. Some garnet from 400-500 feet, pyrite increases from 450-500 feet, muscovite increases from 460-480 feet.....	155	505
total depth - 505 feet		

Well K68 w1		
Saprolite, no sample.....	69	69
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some biotite, garnet. More granitic and iron stained from 70-84 feet.....	15	84
total depth - 84 feet		

Well L65 e1		
Saprolite, grayish-orange, sandy clay, chiefly weathered grains of quartz, feldspar, mica.....	10	10
Saprolite, pale yellowish-brown to moderate yellowish-brown, sandy clay, weathered grains of quartz, feldspar, biotite. Some unweathered grains from 50-80 feet.....	70	80
Granite gneiss, chiefly quartz, feldspar, some muscovite, biotite, chlorite, some iron staining.....	50	130
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite, some hornblende, chlorite, olivine, epidote.....	120	250
No sample.....	10	260
Biotite gneiss, fine-grained, chiefly quartz, feldspar, biotite, some epidote, hornblende, chlorite.....	10	270
Granitic biotite gneiss, similar to 270 feet, biotite percentage decreased.....	20	290
Biotite gneiss as at 250 feet.....	10	300
total depth - 300 feet		

	Thickness (feet)	Depth (feet)
Well L65 f1		
Saprolite, pale reddish-brown, clayey.....	30	30
Saprolite, pale yellowish-brown, clayey, weathered grains of quartz, more sandy at 60 feet.....	30	60
Mica gneiss, medium light-gray, consists of quartz, feldspar, biotite, some pyrite, banded.....	20	80
Hornblende gneiss, medium dark-gray, consists of hornblende, quartz, feldspar and biotite.....	10	90
Mica gneiss, light-gray, consists primarily of feldspar and lesser amounts of quartz, biotite and hornblende.....	30	120
Granite gneiss, medium light-gray, consists of quartz, feldspar and biotite, some epidote (?).....	10	130
Schist-granite-gneiss complex, medium light-gray, chiefly quartz, feldspar, muscovite and biotite, some schistose structure.....	12	142

total depth - 142 feet

Well L65 f2		
Saprolite, moderate reddish-orange, weathered to clayey matrix of weathered mica and quartz.....	40	40
Saprolite, very pale-orange, weathered from slightly silty to clayey soil, composed of mica and some quartz.....	10	50
Saprolite as at 50 feet, color is grayish-orange.....	30	80
Quartz, mica and feldspar, light-gray, all finely dissiminated in matrix and finely crushed by bit action.....	10	90
Mica, quartz, small amount of feldspar, overall color is light-gray, scattered pieces show brownish stains.....	10	100
Mica, quartz, small amount of feldspar, no weathering. Several larger pieces of quartz observed from 140-150 feet.....	50	150
No sample.....	7	157

total depth - 157 feet

	Thickness (feet)	Depth (feet)
Well L65 f3		
Saprolite, light-brown, micaceous clay and medium sand-size grains of weathered mica, quartz, feldspar.....	20	20
Saprolite as at 20 feet, color is grayish-orange. Grain size increased to coarse sand and clay from 30-40 feet..	20	40
Weathered rock, grayish-orange to moderate yellowish-brown, weathered fragments of mica, quartz, feldspar, hornblende (?).....	10	50
Diorite, very fine-grained, chiefly feldspar, hornblende, pyroxene (?), quartz, very small amount of biotite, some iron staining.....	40	90
No sample.....	7	97

total depth - 97 feet

Well L65 g4		
Saprolite, grayish-orange to pale yellowish-brown, some very slightly weathered rock in sample, weathered grains of quartz, feldspar, biotite, hornblende.....	20	20
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite, some chlorite.....	10	30
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende, some epidote, chlorite.....	10	40
No sample.....	10	50
Biotite gneiss as at 40 feet.....	20	70
Biotite gneiss as at 40 feet, hornblende increased from 70 feet, almost a hornblende gneiss.....	20	90
No sample.....	10	100
Biotite gneiss as at 90 feet.....	30	130
No sample.....	12	142

total depth - 142 feet

	Thickness (feet)	Depth (feet)
Well L65 r2		
Saprolite, very pale-orange to pale greenish-yellow, sandy clay, mainly weathered mica, feldspar, some quartz.....	10	10
Saprolite, very pale-orange to pale yellowish-brown, sandy clay, chiefly weathered grains of mica, feldspar, quartz.....	50	60
Biotite gneiss, granitic, chiefly feldspar, quartz, biotite, chlorite, some iron staining. No iron staining from 90-100 feet. Less granitic from 120-140 feet.....	112	172
total depth - 172 feet		

Well L65 s1		
Saprolite, very pale-orange, sandy micaceous clay, contains weathered grains of mica, quartz, feldspar. Texture becomes more sandy from 30-60 feet.....	60	60
Granite, chiefly orthoclase, quartz, some biotite, hornblende, pyrite, 5% dark minerals.....	10	70
Biotite gneiss, chiefly quartz, feldspar, biotite, some hornblende, epidote, magnetite, 25% dark minerals.....	10	80
Biotite gneiss similar to 80 feet, dark minerals decreased to 15%, some sphene, chlorite. Hornblende increased from 140-150 feet. Chlorite increased from 170-180 feet and some of feldspar is pinkish colored.....	130	210
Gneiss, chloritic, chiefly feldspar, quartz, chlorite, hornblende, small amounts of epidote, sphene, biotite, 10% dark minerals, some of feldspar is pink colored.....	40	250
Mica gneiss, chiefly quartz, feldspar, biotite, muscovite, some hornblende, pyrite, 10% dark minerals.....	55	305
total depth - 305 feet		

Well L65 s2		
Saprolite, grayish-orange, sandy clay, weathered grains of quartz, feldspar, biotite.....	10	10
Saprolite, grayish-orange to yellowish-gray, clay and medium sand-size grains of weathered quartz, feldspar and mica. Few pebble-size grains from 50-60 feet.....	50	60

	Thickness (feet)	Depth (feet)
Well L65 s2 - continued		
Saprolite, grayish-orange to yellowish-gray, sandy clay, medium sand-size grains of quartz, feldspar and mica. Few weathered orthoclase crystals 15-20 mm size from 80-90 feet.....	30	90
Saprolite, grayish-orange, sandy clay, weathered sand and pebble-size grains of quartz, feldspar, mica.....	20	110
Granite gneiss, porphyritic, chiefly quartz, feldspar, chlorite, hornblende, biotite, olivine, phenocrysts are orthoclase crystals, some of feldspar is pink. Small amount of garnet from 120-190 feet. Higher percentage of feldspar is pink from 130-180 feet. Feldspar color more white from 180-190 feet.....	80	190
Granite, chiefly quartz and orthoclase, color from white to pink, some biotite, hornblende, garnet, few iron stained grains.....	10	200
Granite gneiss, mica and hornblende increased from 200 feet, chiefly quartz, feldspar, hornblende, chlorite, muscovite, some biotite, pyrite, garnet, olivine.....	10	210
Granite as at 200 feet, some muscovite, no iron staining present, some chlorite. Chlorite increased from 250-260 feet.....	60	270
Granite gneiss, chiefly quartz, feldspar, chlorite, biotite, some olivine, most of feldspar is white but some pink...	10	280
total depth - 280 feet		

Well L65 w1

Saprolite, dark yellowish-orange, fine sand and some clay, chiefly weathered quartz, feldspar, some mica.....	10	10
Saprolite, grayish-orange to moderate orange-pink, sandy clay, clay and weathered quartz grains. Grain size increases to medium sand with clay from 20-30 feet.....	20	30
Weathered rock, biotite gneiss, consists of quartz, feldspar, biotite, all grains iron stained.....	10	40
Biotite gneiss, some iron staining, consists chiefly of feldspar, biotite, quartz, some epidote. Some muscovite at 95 feet.....	55	95
total depth - 95 feet		

	Thickness (feet)	Depth (feet)
Well L66 c1		
Saprolite, no sample.....	81	81
Biotite gneiss, some iron staining, chiefly quartz, feldspar, biotite, hornblende, epidote. Less iron staining from 90-105 feet.....	24	105
No sample.....	5	110
Biotite gneiss as at 105 feet, hornblende increased.....	10	120
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite, small amount of iron staining.....	5	125
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende, chlorite, some iron staining.....	12	137
Granite, chiefly feldspar and quartz, small amounts of bio- tite, muscovite, some iron staining. Biotite increases from 155-160 feet.....	23	160
Gneiss, chiefly quartz, feldspar, hornblende, biotite, horn- blende percentage larger than biotite.....	25	185
Gneiss as at 185 feet, biotite percentage larger than horn- blende, sample finer-grained.....	10	195
Biotite gneiss, chiefly feldspar, quartz, biotite, horn- blende, chlorite, some iron staining.....	10	205
No sample.....	15	220
Gneiss, granitic, chiefly quartz, feldspar, hornblende, biotite, epidote, chlorite, some iron staining.....	5	225
Granite as at 160 feet, some iron staining.....	5	230
Granite gneiss as at 225 feet.....	10	240
Actinolite gneiss, chiefly quartz, feldspar, actinolite (tremolite), some hornblende, biotite, some iron staining.....	60	300
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite.....	10	310
Granitic gneiss, chiefly feldspar, quartz, actinolite, bio- tite, hornblende, muscovite.....	5	315
No sample.....	75	390

total depth - 390 feet

	Thickness (feet)	Depth (feet)
Well L66 c2		
Saprolite, no sample.....	35	35
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite..	52	87
total depth - 87 feet		

Well L66 h1		
Saprolite, very pale-orange, sand and clay, consists of weathered grains of quartz, feldspar, biotite.....	20	20
Saprolite as at 20 feet, very pale-orange to grayish-orange..	10	30
Biotite-chlorite gneiss, chiefly quartz, feldspar, biotite, muscovite, some olivine, small amount of iron staining..	30	60
No sample.....	7	67
total depth - 67 feet		

Well L66 m1		
No sample.....	112	112
Granite, possibly gneissic, chiefly quartz and feldspar but contains biotite, muscovite, chlorite, hornblende, olivine; some iron staining.....	1	113
Biotite gneiss, chiefly quartz, feldspar, biotite, some hornblende, chlorite, muscovite, olivine; some iron staining. Less iron staining from 119-197 feet. Hornblende increases from 140-203 feet. More iron staining from 197-203 feet.....	90	203
No sample.....	8	211
total depth - 211 feet		

Well L66 n8		
Saprolite, grayish-orange, clayey sand, composed of weathered fragments of quartz, orthoclase, mica.....	20	20
Weathered rock, yellowish-gray, sandy clay, composed of weathered fragments of quartz, feldspar, biotite. Not as weathered as previous samples. Percentage of clay size particles increased.....	10	30

	Thickness (feet)	Depth (feet)
Well L66 n8 - continued		
Quartz-biotite gneiss, contains quartz, orthoclase, biotite, plagioclase, muscovite, some chlorite, epidote.....	10	40
Quartz-biotite gneiss or granite. Biotite percentage decreased from 40 feet.....	30	70
Quartz-biotite gneiss. Biotite percentage increases from 70 feet. Contains quartz, orthoclase, biotite, plagioclase, muscovite, chlorite, and epidote. Chlorite content increased from 90-160 feet.....	90	160
Granite, contains quartz, pink orthoclase, chlorite, muscovite, some biotite, plagioclase. Biotite increased from 200-260 feet. Small amount of pyrite noted from 220-240 feet.....	100	260
Quartz-biotite gneiss, chiefly quartz, orthoclase, biotite, very little pink colored orthoclase, small amounts of chlorite, plagioclase, epidote. More pink orthoclase from 270-280 feet.....	20	280
Biotite schist, chiefly quartz and biotite, some orthoclase and chlorite, cuttings very fine-grained, very dark-gray.....	20	300
Granite, chiefly orthoclase, quartz, muscovite, small amount of biotite.....	10	310
Biotite schist, chiefly quartz and biotite, some orthoclase, fine-grained, overall color is dark-gray.....	10	320
Granite, chiefly quartz and orthoclase with small amount of biotite, muscovite, pyrite, plagioclase. Most of pyrite oxidized to limonite.....	10	330
Biotite gneiss, consists of quartz, orthoclase, biotite, some chlorite, pyrite. Some pyrite is oxidized. Some zones trending toward schist from 340-370 feet.....	40	370
Granite, chiefly quartz and orthoclase, biotite decreased from 370 feet. Muscovite and hornblende present from 380-390 feet.....	20	390
Granite as at 390 feet, muscovite increasing, pyrite and pyrite oxidized to limonite present.....	20	410
Biotite gneiss, chiefly quartz, orthoclase, biotite, cuttings very fine-grained, also contains muscovite.....	20	430

	Thickness (feet)	Depth (feet)
Well L66 n8 - continued		
Granite, chiefly quartz, orthoclase, muscovite, very little biotite, pyrite.....	10	440
Biotite gneiss as at 430 feet.....	20	460
Granite as at 440 feet, some biotite.....	20	480
Biotite gneiss, consists of quartz, orthoclase, biotite, muscovite, chlorite. Some of quartz is rose-colored.....	20	500
total depth - 500 feet		

Well L66 n9		
Saprolite, moderate orange-pink to light-brown, clayey sand, consists of weathered grains of mica, quartz, feldspar..	20	20
Saprolite, grayish-orange, sandy clay, weathered grains of mica, quartz, feldspar (kaolinite).....	20	40
No sample.....	20	60
Biotite gneiss, medium-grained, chiefly quartz, feldspar, biotite, chlorite, epidote. More granitic from 70-80 feet.....	30	90
No sample.....	20	110
Biotite gneiss as at 90 feet.....	30	140
No sample.....	10	150
Biotite gneiss as at 90 feet, olivine from 180-210 feet.....	60	210
Hornblende gneiss with biotite, chiefly feldspar, quartz, hornblende, biotite, chlorite, epidote; overall color is medium dark-gray. Color changes to medium light-gray from 220-240 feet.....	30	240
Biotite gneiss with hornblende, similar to that at 240 feet, biotite exceeds hornblende.....	40	280
No sample.....	10	290
Biotite gneiss as at 280 feet, very little hornblende.....	20	310
Muscovite-biotite gneiss, chiefly feldspar, quartz, muscovite, biotite, some garnet, pyrite, olivine.....	10	320

	Thickness (feet)	Depth (feet)
Well L66 n9 - continued		
Biotite gneiss, chiefly quartz, feldspar, biotite, muscovite, chlorite, small amount of hornblende. Small amount of pyrite from 360-370 feet. Small amount of garnet from 400-420 feet. Small amount of iron staining from 410-420 feet.....	100	420
No sample.....	15	435

total depth - 435 feet

	Thickness (feet)	Depth (feet)
Well L66 n10		
Saprolite, very pale-orange, clay and medium sand-size grains, contains weathered fragments of quartz, muscovite, feldspar, very small amount of weathered biotite.....	20	20
No sample.....	10	30
Saprolite as at 10 feet.....	10	40
Granite, iron stained from weathering, contains quartz, feldspar, biotite, muscovite, garnet.....	20	60
Granite gneiss, small schistose veins, chiefly quartz, feldspar, muscovite, biotite, garnet, iron stained from weathering.....	10	70
Granite gneiss as at 70 feet, not as iron stained, garnet increasing, some pyrite noted.....	10	80
No sample.....	10	90
Granite gneiss as at 80 feet, very little iron staining present.....	10	100
No sample.....	10	110
Granite gneiss as at 100 feet.....	10	120
No sample.....	20	140
Mica gneiss, almost schistose, chiefly quartz, biotite, muscovite, feldspar, garnet, pyrite, chlorite.....	10	150
No sample.....	10	160

	Thickness (feet)	Depth (feet)
Well L66 n10 - continued		
Hornblende gneiss, fine-grained, almost schistose, chiefly quartz, hornblende, feldspar, biotite; color medium dark-gray, some iron staining present, sample indicates probable layering of biotite and hornblende concentrations. Small amounts of muscovite and pyrite from 170-190 feet.....	30	190
Mica gneiss, chiefly quartz, feldspar, biotite, muscovite, small amounts of hornblende, pyrite, garnet.....	10	200
Hornblende gneiss and mica gneiss as at 190 feet, more biotite present, rock chips of hornblende and quartz and chips of biotite and quartz, almost schistose.....	10	210
No sample.....	10	220
Mica gneiss, almost schistose, chiefly quartz, feldspar, muscovite, biotite, pyrite, garnet, chlorite (?), very little hornblende.....	10	230
Biotite gneiss, medium-gray, chiefly quartz, biotite, feldspar, hornblende, pyrite, muscovite.....	20	250
No sample.....	10	260
Granite gneiss, approximately same as at 250 feet, more quartz and feldspar, lighter-gray, some garnet.....	20	280
Hornblende gneiss, very schistose, fine-grained, medium dark-gray color, chiefly quartz and hornblende, feldspar, biotite, olivine, pyrite.....	20	300
total depth - 300 feet		

Well L66 n11

Saprolite, light-brown, micaceous clay and weathered grains of mica, quartz.....	10	10
Saprolite, pale yellowish-orange to grayish-orange, small amount of clay, weathered mica grains and quartz.....	20	30
Biotite-quartz schist, contains quartz, biotite, muscovite and garnet, iron staining on large percentage of sample from 40-50 feet.....	20	50
Mica schist to mica gneiss with probable quartz veins, chips of biotite-quartz schist as at 50 feet, chips of fine-grained, banded mica gneiss and larger chips of quartz. Chief minerals are quartz and biotite.....	10	60

	Thickness (feet)	Depth (feet)
Well L66 n11 - continued		
Muscovite-quartz schist, chiefly muscovite and quartz, biotite and pyrite. Most of sample is iron stained.....	10	70
Muscovite-quartz schist, not as iron stained as at 70 feet, chiefly muscovite, quartz, chlorite, pyrite, biotite, garnet.....	10	80
Mica schist, biotite percentage increased, muscovite decreased, chiefly quartz, biotite, muscovite, pyrite, chlorite, garnet.....	40	120
Biotite-hornblende gneiss, exhibits some schistosity, chiefly quartz, feldspar, biotite, hornblende, some garnet.....	20	140
Biotite gneiss, chiefly quartz, biotite, chlorite, very little hornblende, pyrite and garnet.....	10	150
Mica schist as at 90 feet, chiefly quartz, muscovite, biotite, chlorite, pyrite, garnet.....	50	200
Biotite gneiss, fine-grained, almost schistose, chiefly quartz, biotite, feldspar, hornblende, pyrite, olivine; color is medium-gray to brownish-gray. Biotite percentage increases from 210-230 feet. Hornblende percentage increases from 230-260 feet.....	65	265

total depth - 265 feet

Well L66 o7

Saprolite, sandy clay, light-brown, contains weathered fragments of feldspar, quartz, muscovite.....	10	10
Saprolite, sandy clay, color changed to grayish-orange, mica percentage increased.....	10	20
Saprolite, sandy clay, color changed to yellowish-gray, more sand-size grains.....	10	30
No sample.....	10	40
Granite, major mineral is quartz, contains orthoclase and biotite.....	10	50

	Thickness (feet)	Depth (feet)
Well L66 o7 - continued		
Granite gneiss, mineral composition same as at 50 feet, may be some lineation of biotite gneiss.....	10	60
Granite as at 50 feet.....	10	70
Granite, biotite fraction increasing, major minerals are quartz, orthoclase, biotite, very small pieces of chlorite.....	10	80
Granite gneiss or biotite gneiss, minerals as at 80 feet, some lineation of biotite grains. More granitic from 100-170 feet.....	90	170
Granite gneiss or biotite gneiss, major minerals are quartz, feldspar and biotite.....	35	205
total depth - 205 feet		

Well L66 p4

Granitic gneiss, partially weathered, quartz, feldspar, biotite, hornblende, muscovite. Not as weathered from 10-20 feet.....	20	20
Hornblende gneiss, quartz, feldspar, hornblende, biotite.....	20	40
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende. Hornblende increased from 60-80 feet.....	40	80
Biotite gneiss, granitic, chiefly feldspar, quartz, biotite, muscovite, chlorite, pyrite.....	20	100
Biotite gneiss as at 60 feet.....	20	120
Granite, possibly gneissic, chiefly feldspar, quartz, muscovite, biotite, small amount of hornblende, pyrite.....	20	140
Biotite gneiss as at 50 feet, some garnet from 170-180 feet..	50	190
Biotite gneiss, slightly granitic, some iron staining, quartz, feldspar, biotite, hornblende, muscovite, garnet. Sample slightly more granitic from 230-240 feet.....	60	250
Granite as at 140 feet.....	30	280
Biotite gneiss as at 250 feet, no iron staining. Less hornblende from 290-305 feet.....	25	305
total depth - 305 feet		

	Thickness (feet)	Depth (feet)
Well L66 q2		
Saprolite and slightly weathered rock, grayish-orange, weathered and fresh grains of quartz, feldspar, biotite, hornblende, muscovite.....	26	26
Biotite gneiss, chiefly quartz, feldspar, biotite, chlorite, possibly banded with distinct biotite bands and distinct chlorite bands.....	41	67
Biotite gneiss, chiefly quartz, feldspar, biotite, muscovite, some epidote, pyrite. Hornblende in sample from 112-142 feet. Garnet in sample from 127-142 feet.....	75	142
Hornblende gneiss, chiefly quartz, feldspar, hornblende; some biotite, muscovite, epidote, chlorite, garnet.....	15	157
Hornblende gneiss as at 157 feet, alternating bands of feldspar, hornblende schist, biotite schist, iron stained quartz as from a vein.....	15	172
Biotite gneiss, chiefly quartz, feldspar, biotite, muscovite, some pyrite, garnet, banded. Muscovite increased from 187-217 feet. Some chlorite in sample from 187-202 feet.....	60	232
Biotite gneiss and hornblende, banded gneiss, chiefly quartz, feldspar, biotite, hornblende, chlorite, epidote, pyrite, garnet.....	120	352
total depth - 352 feet		

Well L66 q3		
Saprolite, grayish-orange, sandy clay texture, contains weathered fragments of quartz, feldspar, muscovite.....	70	70
Unweathered rock, contains quartz, feldspar, biotite, garnet.....	10	80
Granite gneiss, contains quartz, feldspar, biotite, hornblende, garnet, iron stained.....	20	100
Granite gneiss as at 80 feet. No iron staining.....	35	135
No sample.....	6	141
total depth - 141 feet		

	Thickness (feet)	Depth (feet)
Well L66 s1		
Saprolite, light-brown, weathered to a clayey silt.....	20	20
Saprolite, light-brown, contains quartz and minor amount of mica, weathered to clayey medium sand.....	30	50
Weathered rock, biotite gneiss, iron stained, chiefly feldspar, biotite.....	5	55
Biotite gneiss, some iron staining, chiefly quartz, feldspar, biotite, small amount of olivine.....	4	59
Quartz vein, minor amounts of feldspar, biotite, hornblende, olivine.....	1	60
total depth - 60 feet		

Well L66 t2		
Saprolite, moderate orange-pink in larger pieces, pale reddish-brown in finer textures, clayey sand.....	20	20
Saprolite, very pale-orange, weathered to clayey sand, contains weathered grains of quartz and mica, color changes to very pale-orange at 60-80 feet depth.....	60	80
Saprolite, light olive-gray, clayey silt, contains grains of quartz, hornblende, mica.....	10	90
Hornblende gneiss, light-gray, chiefly quartz, hornblende, mica. Quartz increases at 130 feet.....	50	140
No sample.....	2	142
total depth - 142 feet		

Well L66 u1		
Saprolite, moderate orange-pink to grayish-orange, weathered to sandy clay, weathered grains of quartz, feldspar, some mica.....	10	10
No sample.....	10	20
Saprolite, yellowish-gray to very pale-orange, sandy clay, weathered grains of quartz, mica, some feldspar.....	60	80

	Thickness (feet)	Depth (feet)
Well L66 u1 - continued		
Weathered rock, hornblende gneiss and biotite, iron stained, chiefly quartz, feldspar, hornblende, biotite, olivine (?).....	10	90
Weathered rock, biotite gneiss, chiefly quartz, feldspar, biotite, hornblende, olivine (?). Very little weathering from 110-120 feet.....	30	120
Biotite gneiss, granitic, chiefly quartz and feldspar, biotite, muscovite, epidote, garnet.....	20	140
Biotite gneiss, less granitic, chiefly quartz, feldspar, biotite, epidote, minor amount of chlorite.....	10	150
No sample.....	7	157
total depth - 157 feet		

Well L67 a1

Saprolite, grayish-orange, clay, fine sand, and silt, few weathered sand-sized grains of quartz, feldspar and mica.....	10	10
No sample.....	10	20
Saprolite as at 10 feet.....	70	90
Saprolite, very pale-orange, sandy clay, weathered grains of quartz, feldspar, mica.....	30	120
Weathered rock, iron stained, probably a biotite gneiss, chiefly weathered and stained grains of quartz, feldspar, biotite, hornblende, pyrite. Weathering not as extensive from 130-140 feet.....	20	140
No sample.....	17	157
total depth - 157 feet		

Well L67 u2

Saprolite, no sample.....	28	28
Biotite gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, some chlorite, epidote. Less hornblende from 40-50 feet.....	42	70

	Thickness (feet)	Depth (feet)
Well L67 u2 - continued		
Biotite gneiss as at 70 feet, half of sample is iron stained.	10	80
No sample.....	10	90
Biotite gneiss, chiefly quartz, feldspar, biotite, muscovite, epidote, very minor amount of hornblende, some iron staining.....	30	120
Biotite-chlorite gneiss, granitic, small amount of iron staining, chiefly quartz and feldspar, biotite, chlorite, muscovite, olivine, epidote.....	20	140
Biotite gneiss, chiefly quartz, feldspar, biotite, chlorite, muscovite, epidote, pyrite, olivine, sphene.....	10	150
Biotite-chlorite gneiss, granitic as at 140 feet.....	10	160
Biotite gneiss as at 150 feet, iron stained. No iron staining from 170-210 feet.....	50	210
No sample.....	40	250
Biotite gneiss as at 150 feet.....	40	290
No sample.....	10	300
Biotite gneiss as at 150 feet, sphene increased.....	50	350

total depth - 350 feet

Well L68 m3

Saprolite, grayish-orange to moderate orange-pink, sandy clay, composed of clay particles and weathered grains of quartz, mica, feldspar.....	10	10
Chlorite gneiss, composed chiefly of quartz, orthoclase, plagioclase, chlorite, olivine, biotite, muscovite, pyrite, some iron staining in sample.....	10	20
Granite, chiefly orthoclase and quartz and plagioclase, chlorite, muscovite, biotite, pyrite.....	10	30
Hornblende gneiss, chiefly quartz, feldspar, hornblende, chlorite, pyrite.....	10	40
Chlorite gneiss as at 20 feet, some hornblende from 50-60 feet.....	20	60

	Thickness (feet)	Depth (feet)
Well L68 m3 - continued		
Hornblende gneiss, chiefly quartz, feldspar, hornblende, chlorite, biotite, muscovite, olivine.....	10	70
Chlorite gneiss as at 60 feet.....	30	100
Granite gneiss, chiefly orthoclase, quartz, plagioclase, some chlorite, biotite, olivine, only slightly gneissic, very light-gray.....	10	110
Chlorite gneiss as at 60 feet, biotite increased. Small amount of hornblende from 120-130 feet.....	40	150
Hornblende gneiss, chiefly quartz, hornblende, feldspar, biotite, chlorite, muscovite, pyrite.....	10	160
Biotite gneiss, chiefly quartz, feldspar, biotite, small amount of muscovite, hornblende, chlorite, pyrite.....	10	170
Chlorite gneiss as at 130 feet.....	10	180
Granite gneiss as at 110 feet, very light-gray, small amount of hornblende from 190-200 feet.....	20	200
Chlorite gneiss as at 130 feet.....	20	220
Hornblende gneiss as at 160 feet, fine-grained. Chlorite increased from 290-300 feet.....	100	320
No sample.....	2	322
total depth - 322 feet		

Well L68 m4

Saprolite, grayish-orange, sandy clay, weathered grains of quartz, mica, feldspar.....	10	10
Saprolite, pale yellowish-brown to grayish-orange, clayey sand, contains weathered grains of quartz, mica, feld- spar, hornblende.....	10	20
Chlorite gneiss, chiefly quartz, feldspar, chlorite, horn- blende, biotite, some iron staining.....	10	30
Chlorite gneiss as at 30 feet, biotite increased, hornblende decreased, some garnet.....	10	40

	Thickness (feet)	Depth (feet)
Well L68 m4 - continued		
Chlorite gneiss, less chlorite and biotite than at 40 feet, granitic, chiefly feldspar, quartz, chlorite, biotite, muscovite, olivine, pyrite.....	20	60
Chlorite gneiss as at 40 feet, biotite increased.....	20	80
Chlorite gneiss as at 60 feet.....	10	90
Hornblende gneiss, chiefly feldspar, quartz, hornblende, chlorite, olivine, biotite, most of feldspar (orthoclase) is pinkish in color.....	10	100
Hornblende gneiss, chiefly feldspar, quartz, hornblende, small amounts of chlorite, olivine, biotite, very little pink orthoclase. Chlorite increased from 160-180 feet. Biotite increased from 170-180 feet. Biotite and chlorite decreased from 180-220 feet.....	120	220
Biotite gneiss, chiefly quartz, feldspar, biotite, chlorite, hornblende, olivine.....	10	230
Hornblende gneiss, hornblende increased from 230 feet, biotite decreased from 230 feet, a chloritic hornblende gneiss.....	20	250
Biotite gneiss as at 230 feet. Hornblende increased from 260-270 feet.....	20	270
Hornblende gneiss, chloritic, as at 250 feet.....	20	290
No sample.....	2	292
total depth - 292 feet		

Well M65 f2

Saprolite, pale yellowish-brown, weathered to fine sand, mica (biotite?) and weathered quartz, very little clay in matrix.....	10	10
Saprolite, as at 10 feet, except very micaceous, (biotite), and a few quartz pieces are larger (some 5 mm in diameter), however, edges of quartz are sharp and appear at the 10-20 feet depth.....	40	50
Saprolite, yellowish-gray, consists of 90% quartz and 10% biotite. Many pieces show weathering stains.....	20	70

	Thickness (feet)	Depth (feet)
Well M65 f2 - continued		
Quartz, feldspar, biotite and hornblende, white to very light-gray, flecks of biotite and hornblende are black. Scattered pieces are stained pink around the edges. Apparently the top of hard rock (80 feet) is a large feldspar-quartz vein (pegmatite). If sample is a good cut, the vein must be about 10 feet thick since none of the underlying rock (gneiss) was observed.....	10	80
Granitic gneiss, medium light-gray, quartz, feldspar, mica; scattered pieces of quartz are pink. Mica is predominately biotite.....	10	90
Same as at 90 feet, cuttings almost pulverized by drill; only one large piece of rock observed; this piece would classify as a biotite-gneiss granite.....	60	150
Granite, quartz content high (80%), much of quartz is pink, but overall color of cuttings is varicolored from white to grayish-pink to light-gray to black, contains biotite (15%) and feldspar (5%).....	10	160
Gneiss, feldspar is moderate red and hornblende is medium dark-gray. Biotite content very low (1%).....	10	170
Gneiss, granitic, medium light-gray, contains biotite, quartz, scattered pieces of medium-red feldspar.....	10	180
Gneiss, granitic, light-gray, contains quartz, feldspar, biotite. Biotite content increases from 200-277 feet...	97	277
total depth - 277 feet		

Well M65 g1

Saprolite, grayish orange-pink, sandy clay, contains weathered feldspar, mica, quartz.....	25	25
Saprolite, very pale-orange, sandy clay, probably weathered rock, contains weathered mica, feldspar, quartz.....	25	50
Saprolite, yellowish-gray, weathered rock, contains weathered mica, feldspar, quartz, hornblende.....	25	75
Hornblende gneiss, granitic, chiefly feldspar, quartz, hornblende, biotite.....	25	100
Hornblende gneiss as at 100 feet, not granitic.....	25	125

	Thickness (feet)	Depth (feet)
Well M65 g1 - continued		
Biotite gneiss, chiefly quartz, feldspar, biotite, hornblende.....	22	147
total depth - 147 feet		

	Thickness (feet)	Depth (feet)
Well M65 i2		
Saprolite, grayish-orange mottled by black pieces of mica, weathered to sandy soil, contains brown stained quartz grains (90%) and very soft mica. Scattered pieces of weathered feldspar from 30-50 feet.....	50	50
Mica gneiss, quartz increases (90%), about 30-40% of quartz is moderate reddish-orange color, remaining color is as above.....	10	60
Biotite gneiss with small amount of hornblende, quartz is pink to smoky color, mica (biotite) layered between quartz grains. The quartz grains appear orbicular in a lineational pattern with the mica.....	10	70
Mica gneiss and hornblende, quartz (75%), biotite and hornblende (15%) and feldspar (10%), color is white to very light-gray mottled black layers of mica. Very small amount of pink quartz in cuttings from 80-90 feet.....	20	90
Mica gneiss as at 90 feet, mica increases (30-40%), medium-light gray.....	30	120
Biotite gneiss with hornblende, weathering on numerous cuttings.....	10	130
Mica gneiss as at 120 feet.....	50	180
total depth - 180 (?) feet		

Well M65 11

Note: Samples were taken every 25 feet.

Weathered rock, consists primarily of very pale-orange, stained quartz, minute amount of weathered mica.....	?	25
Biotite-quartz gneiss, granitic, overall color is medium light-gray to salt and pepper appearance.....	?	50
Same as at 50 feet, rock finely ground by bit action.....	?	75

	Thickness (feet)	Depth (feet)
Well M65 11 - continued		
Biotite gneiss, biotite content increases.....	?	100
Biotite gneiss as at 75 feet.....	?	125
Biotite gneiss as at 75 feet.....	?	150
Gneiss, granitic, quartz and feldspar (95%) and mica (5%), color is very light-gray.....	?	175

total depth - 175 feet

Well M65 o1

No sample.....	31	31
Quartz, colorless to yellowish gray, weathered, 75% of rock and mica (biotite) black in massive form.....	5	36
Biotite gneiss, quartz and mica, 90% badly weathered to mod- erate-brown color.....	50	86
Biotite gneiss as at 86 feet, only 75% weathered.....	10	96
No sample.....	22	118

total depth - 118 feet

Well M65 p1

No sample.....	10	10
Saprolite, light-brown to grayish-orange, clayey micaceous...	10	20
No sample.....	10	30
Saprolite as at 20 feet, color is pale yellowish-brown.....	10	40
Saprolite as at 20 feet, minute pieces of quartz in sample...	10	50
Granite, very light- to medium-light-gray, consists of bio- tite (20%), quartz (50%) and feldspar (30%). Weathering on some pieces from 70-190 feet. Mica increases from 100-110 feet.....	140	190
No sample.....	12	202

total depth - 202 feet

	Thickness (feet)	Depth (feet)
Well M65 r2		
Saprolite, moderate reddish-orange, clayey, micaceous. Color changes to moderate yellowish-brown from 10-20 feet.....	20	20
Saprolite, pale yellowish-brown, clayey to slightly sandy, weathered quartz and micaceous, fragments of weathered quartz and feldspar to 5 mm from 30-40 feet.....	20	40
Mica and quartz, badly weathered rock, light brownish-gray...	10	50
Saprolite, moderate yellowish-brown, sandy.....	10	60
No sample.....	40	100
Granite, light-gray, consists of mica, quartz and feldspar...	10	110
No sample.....	10	120
Granite, very light-gray quartz, feldspar, biotite. Pink feldspar from 130-140 feet.....	20	140
No sample.....	5	145

total depth - 145 feet

Well M65 s1

Weathered rock, granite, color white to very light-gray, consists of quartz, feldspar and some biotite, horn- blende, muscovite.....	25	25
Granite as at 25 feet, very little weathering, dark minerals constitute 5% of sample, dark minerals increase to 10% from 50-125 feet, small amount of sphene from 100-223 feet, dark minerals increase from 150-223 feet, some olivine from 175-223 feet.....	198	223

total depth - 223 feet

Well M65 u1

Saprolite, grayish-orange, weathered pieces of feldspar, quartz, and mica (muscovite?). Color changes to mod- erate reddish-orange from 10-20 feet.....	20	20
Saprolite, pinkish-gray, pieces of quartz, biotite and weathered feldspar, very sandy.....	10	30

	Thickness (feet)	Depth (feet)
Well M65 ul - continued		
Saprolite, light-gray, pieces of quartz, biotite, very sandy, sample pulverized by bit action.....	20	50
Granite, sample pulverized by bit action, consists of quartz, feldspar, biotite.....	78	128
total depth - 128 feet		

Well M65 v2		
Quartz (90%), mica (5%) and feldspar (5%), moderate reddish-orange to light grayish-brown, all of cuttings consist of coarse sub-angular sand. Slightly less weathering from 10-20 feet.....	20	20
Granite, quartz (40%), feldspar, mica and hornblende, white to very pale-orange, slight amount of staining on pieces of quartz, very coarse sub-angular sand.....	10	30
Quartz (95%) and feldspar, very little mica, pale yellowish-brown, cuttings badly crushed by drill action. Color changes to light-gray from 40-50 feet.....	20	50
Granite, quartz (85%), white to scattered pieces of light-brown, feldspar, very light-gray, minute bits of black mineral embedded into scattered pieces of quartz.....	10	60
Granite, quartz (30%) and feldspar (40%), medium light-gray..	10	70
Granite (?) as at 70 feet, when not crushed by bit, rock is white to very light-gray (quartz and feldspar) impregnated by layers of black (massive) mica, biotite.....	30	100
total depth - 100 feet		

Well M65 v3		
Note: Cuttings taken at 25 foot intervals.		
Weathered rock. Consists primarily of grayish-brown, stained (weathered) quartz.....	25	25
Granite (?), mica (biotite), orthoclase, plagioclase, quartz, salt and pepper appearance, may be diorite, may also be gneissic. Scattered cuttings show tan stains from 50-100 feet.....	150	175
total depth - 175 feet		

	Thickness (feet)	Depth (feet)
Well M65 w1		
Note: Cuttings taken at 25 feet intervals.		
Saprolite, yellowish-gray, consists of weathered quartz and mica, sandy texture.....	25	25
Saprolite, grayish-yellow, weathered quartz and mica.....	50	75
Pink quartz sample selected by sample collector.....	?	100
Granite, white to pinkish-gray quartz, minor amounts of mica and feldspar.....	50	150
Diorite, medium-light to dark-gray, contains hornblende, biotite, feldspar and quartz.....	50	200
Granite, pink, feldspar, minor amounts of mica (biotite).....	25	225
Granite as at 150 feet.....	25	250
Diorite as at 200 feet, mica content larger.....	25	275
Granite as at 225 feet, cuttings more broken by bit action...	25	300
Diorite as at 200 feet.....	50	350
No sample.....	25	375
total depth - 375 feet		

Well M66 a1		
Saprolite, light-brown, silty clay and fine sand, contains weathered quartz, feldspar, mica, hornblende (?).....	30	30
Saprolite, very pale-orange to grayish-orange, clayey sand, contains weathered mica, quartz, feldspar, a micaceous clay.....	70	100
Biotite gneiss, chiefly quartz, feldspar, biotite, some hornblende, muscovite, epidote, very small amount of iron staining, some biotite-quartz schist in sample. Small amount of sphene from 110-200 feet. Some iron staining from 120-130 feet, 160-170 feet. Sample more granitic from 180-190 feet.....	100	200
No sample.....	5	205
total depth - 205 feet		

	Thickness (feet)	Depth (feet)
Well M66 c1		
Saprolite, yellowish-gray to grayish-orange, sandy clay, contains weathered mica, quartz, feldspar, hornblende...	25	25
Weathered rock, grayish-orange to light-brown, clay and sand, weathered feldspar, mica, quartz, hornblende.....	25	50
Biotite gneiss with hornblende, some iron staining, chiefly quartz, feldspar, biotite, hornblende, minor amounts of epidote, chlorite, garnet.....	50	100
Granitic gneiss, chiefly feldspar, quartz, biotite, horn- blende, iron stained.....	25	125
total depth - 125 feet		

Well M66 c2		
Saprolite, pale yellowish-orange to grayish-orange, micaceous clay, sand and silt, contains weathered mica, quartz....	25	25
Saprolite, grayish-yellow to grayish-orange, sandy clay, contains weathered quartz, mica, feldspar.....	50	75
Epidote-biotite schist, slightly gneissic, chiefly epidote and biotite, some quartz and feldspar, lineation of grains is present, some iron staining.....	25	100
Biotite gneiss, iron stained, chiefly quartz, feldspar, bio- tite, hornblende, pyrite, epidote. More schistose from 125-150 feet.....	50	150
total depth - 150 feet		

M66 e2		
Saprolite, very pale-orange, sandy clay, contains weathered grains of quartz, mica, feldspar.....	70	70
Saprolite as at 70 feet, color is yellowish-gray to very pale-orange.....	40	110
Biotite gneiss, almost schistose, chiefly quartz, biotite, feldspar, muscovite, garnet, not as schistose from 140-150 feet and contains some chlorite and olivine.....	40	150

	Thickness (feet)	Depth (feet)
Well M66 e2 - continued		
Biotite gneiss as at 150 feet, slightly granitic from 160-190 feet, feldspar is pinkish from 170-180 feet. Sample is more granitic from 200-210 feet. Feldspar is red to pink-colored from 200-210 feet.....	60	210
No sample.....	37	247
total depth - 247 feet		

Well M66 k1		
Saprolite, dusky-yellow, clayey sand, contains weathered quartz, hornblende, mica, feldspar.....	20	20
Weathered rock, light olive-gray, weathered hornblende, quartz, feldspar, mica (hornblende gneiss). Amount of weathering decreases continuously from 30-90 feet.....	70	90
Hornblende gneiss, feldspar, hornblende, quartz, some biotite, most of quartz is smokey-brown in color. Slight iron staining from 110-150 feet.....	60	150
No sample.....	7	157
total depth - 157 feet		

Well M66 11		
Saprolite, grayish-orange, sandy, weathered pieces of quartz in sample.....	20	20
Saprolite, very pale-orange, clayey, weathered biotite common from 60-80 feet.....	60	80
Granite gneiss, weathered, light-gray, chiefly quartz, biotite, feldspar, hornblende. Hornblende increased from previous interval.....	30	110
No sample.....	10	120
Granite, grayish-pink, medium-grained, composed of quartz, muscovite, feldspar.....	20	140
No sample.....	10	150
Granite gneiss as at 110 feet, scattered pieces are iron stained.....	10	160

	Thickness (feet)	Depth (feet)
Well M66 11 - continued		
Granite as at 140 feet, light minerals decreased, much of sample stained brown.....	60	220
Granite gneiss as at 110 feet.....	10	230
No sample.....	20	250
Granite gneiss as at 110 feet, rock ground fine from 270-280 feet by bit action.....	40	290
Granite gneiss, light-gray, composed of feldspar, quartz and minor amount of hornblende and biotite.....	10	300
Granite as at 140 feet.....	10	310
Granite gneiss as at 110 feet, light color minerals increased from 330-340 feet.....	40	350
total depth - 352 feet		

Well M66 12

Saprolite, grayish-orange, weathered grains of biotite and quartz.....	10	10
Saprolite, very pale-orange, weathered biotite common, some quartz grains 2 mm in size.....	30	40
Granite gneiss, medium dark-gray to dark-gray, fine- to medium-grained, composed chiefly of feldspar, quartz, biotite, and hornblende, dark minerals (hornblende and biotite) increase at 50, 150, 170, 330 and 370-412 feet.	372	412

(Samples were missing at 160, 240, 250 and 360 feet.)

total depth - 412 feet

Well M66 01

Saprolite, grayish-orange, fine-grained, clayey sand, weathered mica, quartz, feldspar. Sand is medium-grained from 10-20 feet.....	20	20
Saprolite and some unweathered rock, very pale-orange, contains weathered and unweathered grains of quartz, feldspar, biotite, hornblende.....	30	50

	Thickness (feet)	Depth (feet)
Well M66 o1 - continued		
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite, some hornblende, chlorite, epidote, muscovite. Less granitic, some iron staining from 60-70 feet. Hornblende increased from 70-90 feet.....	40	90
No sample.....	40	130
Biotite gneiss, granitic as at 60 feet.....	10	140
Hornblende gneiss, chiefly quartz, feldspar, hornblende, biotite, chlorite.....	10	150
total depth - 150 feet		

Well M66 q2		
Saprolite, grayish-orange, sandy clay, contains weathered quartz, feldspar, mica.....	10	10
Saprolite, very pale-orange, clayey sand, contains quartz, feldspar, mica, some hornblende.....	10	20
Saprolite, yellowish-gray to grayish-orange, sand containing very small amount of clay, contains weathered quartz, feldspar, mica (biotite), hornblende. Slightly less weathered from 40-70 feet.....	50	70
No sample.....	30	100
Granite gneiss, chiefly quartz and feldspar, some biotite, hornblende, chlorite, olivine, some iron staining. Feldspar color is from white to pink from 110-120 feet..	30	130
total depth - 133 feet		

Well M66 t1		
Saprolite, grayish-orange, clayey texture, contains weathered grains of mica.....	10	10
Saprolite, moderate yellowish-brown, sandy, weathered grains of quartz and mica.....	20	30
Saprolite, very pale-orange, clayey, contains weathered quartz and mica.....	40	70
Granite, pinkish-gray to medium-gray, chiefly quartz, mica, some feldspar.....	40	110

	Thickness (feet)	Depth (feet)
Well M66 t1 - continued		
No sample.....	17	127
total depth - 127 feet		
Well M66 v1		
No sample.....	114	114
Biotite gneiss and hornblende, chiefly quartz, feldspar, biotite, hornblende, some epidote.....	1	115
No sample.....	97	212
total depth - 212 feet		
Well M66 y2		
Saprolite, moderate-brown to moderate reddish-brown. Sandy clay and clay particles containing mica flakes and medium- sand-size quartz. Mica flakes increased from 10-17 feet.....	17	17
Saprolite to weathered rock, light-brown, chiefly weathered grains of quartz, mica, hornblende, feldspar, some clay size grains.....	10	27
No sample.....	10	37
Hornblende gneiss, weathered, chiefly quartz, hornblende, mica, some feldspar, sample is iron stained, sample ground fine by bit action.....	10	47
No sample.....	10	57
Hornblende gneiss, some iron staining, chiefly quartz, horn- blende, mica and feldspar. Mica percentage increased from previous sample, sample ground fine by bit action..	10	67
Biotite gneiss, chiefly quartz, feldspar, biotite, horn- blende, no banding visible, 40 to 50% dark minerals.....	10	77
total depth - 77 feet		
Well M66 y3		
Saprolite, moderate reddish-orange, sandy clay, contains weathered grains of mica, quartz.....	17	17

	Thickness (feet)	Depth (feet)
Well M66 y3 - continued		
Gneiss, granitic, weathered, iron stained, contains feldspar, quartz, biotite, some muscovite, chlorite, 15% dark minerals.....	20	37
Granite, gneissic (?), iron stained, contains quartz, feldspar, biotite, 5% dark minerals.....	17	54
Gneiss, some iron staining, contains quartz, feldspar, biotite, 15% dark minerals.....	11	65
Quartz vein material, quartz and minor amounts of biotite, olivine, muscovite.....	10	75

total depth - 75 feet

Well M67 b1

No sample.....	85	85
Hornblende gneiss, contains feldspar, quartz, hornblende, biotite, chlorite, epidote, magnetite.....	15	100
Gneiss, granitic, contains feldspar, quartz, biotite, chlorite, hornblende, some pyrite, epidote, magnetite.....	195	295
Granite, chiefly quartz, feldspar, some biotite, hornblende, epidote, muscovite, 5% dark minerals.....	5	300

total depth - 300 feet

Well M67 b2

Saprolite, pale yellowish-brown to grayish-orange, sandy clay, contains weathered mica, quartz, feldspar.....	20	20
Saprolite, pale yellowish-brown, contains weathered grains of feldspar, quartz, mica, hornblende, magnetite, epidote.....	30	50
Gneiss, contains feldspar, quartz, chlorite, biotite, hornblende, epidote, pyrite, magnetite, 15% dark minerals.....	20	70
Gneiss, chiefly quartz, plagioclase, hornblende, biotite, chlorite, pyrite, magnetite, 30% dark minerals.....	30	100
Gneiss, granitic, quartz, feldspar, biotite, chlorite, muscovite, epidote, 10% dark minerals.....	40	140

	Thickness (feet)	Depth (feet)
Well M67 b2 - continued		
No sample.....	10	150
Gneiss as at 100 feet, chlorite decreased.....	30	180
Gneiss, granitic, contains feldspar, quartz, biotite, chlorite, muscovite, epidote.....	10	190
Vein, chiefly feldspar, quartz, gneiss as at 190 feet.....	10	200
Gneiss, contains quartz, feldspar, biotite, hornblende, chlorite, olivine (?), epidote, 20% dark minerals. Sample is more granitic from 220-230 feet and contains 10% dark minerals.....	30	230
No sample.....	10	240
Chlorite gneiss, chiefly feldspar, quartz, chlorite, musco- vite, epidote, most of feldspar is pink-colored, 5% dark minerals.....	10	250
Gneiss, chiefly quartz, feldspar, biotite, chlorite, horn- blende, epidote, magnetite, 40% dark minerals.....	20	270
Chlorite gneiss as at 250 feet.....	20	290
Gneiss, chiefly quartz, feldspar, biotite, hornblende, mus- covite, epidote, chlorite, magnetite, 20% dark minerals.....	10	300
Gneiss, granitic, contains quartz, feldspar, biotite, chlo- rite, muscovite, olivine (?), epidote, 15% dark minerals	10	310
Gneiss as at 270 feet, some grains are aphanitic.....	10	320
Gneiss as at 300 feet.....	10	330
No sample.....	10	340
Gneiss as at 300 feet, some sphene.....	10	350

total depth - 350 feet

Well M67 b3

No sample.....	60	60
Granite, weathered, medium- to coarse-grained, contains quartz, feldspar, mica.....	80	140

	Thickness (feet)	Depth (feet)
Well M67 b3 - continued		
Granite, gneissic, fine-grained, medium bluish-gray.....	20	160
No sample.....	102	262
total depth - 262 feet		

Well M67 b4		
No sample.....	40	40
Granite, possibly gneissic, partially weathered, chiefly quartz, feldspar, biotite.....	32	72
Mica gneiss, chiefly quartz, feldspar, biotite, muscovite, iron stained. Sample more granitic from 105-120 feet...	63	135
Mica gneiss, granitic, chiefly quartz, feldspar, biotite, muscovite, some iron staining. Most of sample iron stained from 150-165 feet.....	45	180
Biotite gneiss, probably banded, chiefly quartz, feldspar, biotite, chlorite, muscovite, 50% dark minerals.....	15	195
Granite, chiefly quartz, feldspar, some biotite, muscovite, chlorite, 5% dark minerals.....	30	225
Biotite gneiss, chiefly quartz, biotite, feldspar, muscovite, 50% dark minerals. Dark minerals increased to 70% from 240-270 feet.....	45	270
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite, 25% dark minerals.....	15	285
Gneiss, granitic, chiefly quartz, feldspar, biotite, hornblende, muscovite, banded, 25% dark minerals.....	15	300
total depth - 300 feet		

Well M67 j1		
Saprolite, grayish-orange, sandy silt, weathered grains of quartz, mica. Grain size increased to fine- to medium sand from 20-30 feet.....	30	30
Biotite gneiss, granitic, chiefly quartz, feldspar, biotite, muscovite, olivine, iron stained.....	10	40
total depth - 40 feet		

	Thickness (feet)	Depth (feet)
Well M67 k6		
No sample above 175 feet.....	-	-
Hornblende gneiss, chiefly quartz, feldspar, hornblende, some sphene, garnet, epidote, iron stained, 25% dark minerals.....	-	175
Gneiss, granitic, chiefly quartz, feldspar, hornblende, biotite, small amount of garnet, sphene, epidote, some of orthoclase is light pink colored, 10% dark minerals..	40	215
Biotite gneiss, chiefly quartz, feldspar, biotite, horn- blende, iron stained, 25% dark minerals.....	35	250
Gneiss, granitic as at 215 feet.....	4	254
total depth - 254 feet		

Well M67 ul		
Saprolite, moderate yellowish-brown, sandy clay, weathered grains of quartz, mica, feldspar.....	5	5
Saprolite to weathered rock, general color dark yellowish- brown, chiefly weathered grains of mica, quartz, feld- spar.....	5	10
Weathered rock as at 10 feet, probably biotite gneiss.....	10	20
Biotite gneiss, weathered, considerable iron staining, chiefly biotite, quartz, feldspar. More granitic from 30-80 feet.....	60	80
Biotite gneiss, chiefly quartz, biotite, feldspar, hornblende, 40% dark minerals, iron stained.....	40	120
total depth - 120 feet		

Well N65 a2		
Saprolite, moderate orange-pink to grayish-pink, weathered to coarse fragments of quartz and feldspar.....	10	10
Saprolite to badly weathered rock, light-brown, consists primarily of quartz (60%) and feldspar (40%), minor flecks of black material (hornblende?), no clay.....	20	30
Weathered rock, very pale-orange, 80% quartz and 20% feldspar	20	50

	Thickness (feet)	Depth (feet)
Well N65 a2 - continued		
Saprolite as at 30 feet.....	10	60
Quartz (90%), weathered to a very light-gray, feldspar (10%), very pale-orange, very scattered hornblende.....	10	70
Quartz (90%), feldspar (10%), minute amount of hornblende, pinkish-gray color.....	10	80
As above except hornblende increased to 40% from 80-100 feet and to 10% from 100-106 feet. Very small amount of biotite in sample.....	26	106
total depth - 106 feet		

Well N65 b1

No sample.....	25	25
Saprolite, yellowish-gray, clayey, composed of weathered mica and quartz. Color is medium light-gray from 75 to 84 feet.....	59	84
Mica gneiss complex, granitic, consists of 40% dark minerals, mica and hornblende, 60% light minerals, feldspar and granite, mottled black and white. Slight amount of weathered staining on scattered pieces of quartz from 150-175 feet and 250-300 feet. Dark minerals - 20% from 170-225 feet, 50% from 225-250 feet, more concentrated from 250-270 feet as though layered in rock unit.....	241	325
total depth - 325 feet		

Well N65 f1

Saprolite, light-brown, weathered to sandy clay, consists of weathered pieces of mica and quartz.....	10	10
Saprolite, grayish-orange, weathered to sandy clay, consists of weathered mica and pieces of badly weathered quartz, some up to 10 mm in size.....	60	70
Saprolite as at 70 feet except color is moderate yellowish- brown and quartz pieces are similar.....	10	80
Saprolite as at 70 feet, color varies from grayish-orange to pale yellowish-brown.....	30	110

	Thickness (feet)	Depth (feet)
Well N65 f1 - continued		
Saprolite, light olive-gray, weathered to soil but many pieces of unweathered mica in sample, consists of fragments of quartz and mica.....	40	150
Weathered rock, granitic, medium light-gray, consists of yellowish-gray to white quartz and massive layered muscovite.....	10	160
Unweathered quartz and mica; bit action crushed cuttings to small pieces.....	10	170
Unweathered quartz and mica, 75-90% quartz.....	50	220
total depth - 220 feet		

Well N65 f2

Saprolite, grayish-orange, clayey texture.....	50	50
Saprolite as at 50 feet, consists of clay (mica?), weathered grayish orange-pink quartz and weathered white feldspar.	64	114
Quartzite, moderate orange-pink to medium light-gray, minute flecks of feldspar (?).....	11	125
No sample.....	25	150
One large piece of rock (20 x 40 mm), granite gneiss to quartzite, medium dark-gray, very dense and hard.....	-	175
Water zone reported at 185 feet.....	-	185
Quartzite as at 125 feet.....	-	225
total depth - 225 feet		

Well N65 f4

No sample.....	25	25
Quartz, white to light-brown, weathered, slight amount of gray material (feldspar?).....	50	75
Quartz (60%), feldspar (25%), hornblende (10%), and mica (5%), white to light-gray, very angularly broken.....	25	100
Quartz (90%), opaque and black hornblende. Scattered pieces show slight amount of staining from 150-175 feet. Hornblende increased at 200 feet.....	100	200

	Thickness (feet)	Depth (feet)
Well N65 f4 - continued		
Quartz as at 200 feet, several large pieces show brown stains.....	22	222

total depth - 222 feet

Well N65 i2

Saprolite, pale yellowish-brown, sandy. Sample from 25-50 feet contains weathered quartz and mica.....	50	50
Quartz, clear; feldspar, white; mica, black. Overall color is medium light-gray.....	125	175

total depth - 175 feet

Well N65 j1

No sample.....	55	55
Biotite, quartz, minor amount of feldspar, medium dark-gray..	20	75
Quartz, white to pink (80%), very hard, and biotite, dark-gray, soft.....	10	85
Biotite, quartz and minor amount of feldspar as at 75 feet...	260	345

total depth - 345 feet

Well N65 m2

Saprolite, no sample.....	50	50
Biotite, quartz and feldspar (?), pale-brown, broken fine by bit action.....	25	75
Increased biotite gives a "salt and pepper" appearance, quartz grains are smokey to brownish-white color, cuttings are very finely ground by bit action.....	25	100
Larger cuttings, quartz and feldspar increase to 80% of rock, several pieces show weathered stains. Contains pink quartz from 125-140 feet.....	40	140
Layered biotite and quartz, small amount of pink quartz, minor amount of weathering on scattered pieces.....	32	172

total depth - 172 feet

	Thickness (feet)	Depth (feet)
Well N65 o1		
Saprolite, grayish orange-pink to pale yellowish-brown, weathered to a very fine sandy soil consisting of minute fragments of quartz in the matrix.....	10	10
Saprolite, pale yellowish-brown, consists of weathered pieces of mica (muscovite?), quartz and feldspar, texture is clayey to very fine sand.....	10	20
Weathered rock, light brownish-gray, soft, consists of 75% quartz, 15% mica and 10% feldspar. Color changes to medium-gray from 50-60 feet.....	40	60
Quartz and mica, medium-gray, quartz is aplitic, cuttings crushed by bit action.....	20	80
Quartz and mica as at 80 feet, mica (muscovite?) finely dispersed through quartz matrix, rock medium-hard. Rock becomes harder from 140-150 feet.....	70	150
No sample.....	7	157
total depth - 157 feet		

Well N65 o2		
Saprolite, light-brown, clayey and slightly sandy, (dioritic soil).....	10	10
Saprolite, dark yellowish-orange, micaceous, very small amount of fine sand grains. Scattered pieces of weathered whitish quartz from 20-30 feet.....	40	50
Quartz, biotite and feldspar, badly weathered and stained brownish-gray.....	10	60
Diorite, composed of quartz, biotite and plagioclase, white to black mottled, weathering (brown stains) on scattered cuttings. No weathering from 70-80 feet.....	20	80
No sample.....	10	90
Diorite as at 80 feet.....	20	110
Granite, quartz (90%) and feldspar (5%), white, mica and dark minerals (5%).....	30	140
Diorite as at 80 feet.....	108	248
total depth - 248 feet		

	Thickness (feet)	Depth (feet)
Well N65 v1		
Saprolite, pale yellowish-brown, clayey and slightly sandy, weathered mica.....	50	50
Bedrock reported at 63 feet.....	-	63
Diorite, biotite and hornblende (?) (60%); quartz and slight amount of feldspar. Water zone reported at 100 feet, but no change in cuttings.....	-	125
total depth - 150 feet		

Well N65 y1		
Saprolite, moderate yellowish-brown, weathered to clay and small amount of sand.....	1	1
Saprolite, light-brown, micaceous, clayey.....	29	30
Saprolite, pale yellowish-brown, more sandy than above, less mica fragments in sample.....	30	60
Granodiorite (?), quartz and biotite, white speckled with black, hard.....	12	72
total depth - 72 feet		

Well N66 b1		
Saprolite, very pale-orange, micaceous clay and some medium sand grains, chiefly grains of mica, quartz, feldspar...	20	20
Saprolite as at 20 feet, very pale-orange to pale yellowish-brown.....	20	40
Granite, probably gneissic, feldspar, quartz, biotite, sphene, 10% dark minerals.....	50	90
Mica gneiss, iron stained, chiefly quartz, feldspar, biotite, some hornblende, magnetite, muscovite.....	10	100
Hornblende gneiss, 30% dark minerals, chiefly quartz, hornblende, feldspar, biotite, epidote, magnetite, fine-grained.....	10	110
Amphibolite and hornblende gneiss. Amphibolite is very fine-grained hornblende. Hornblende gneiss is same as at 110 feet.....	10	120

	Thickness (feet)	Depth (feet)
Well N66 b1 - continued		
Mica gneiss, granitic, chiefly quartz, feldspar, biotite, hornblende, sphene, epidote, 10% dark minerals. Small amount of iron staining from 260-270 feet.....	180	300

total depth - 300 feet

Well N66 b2

Saprolite, light-brown, sandy clay, weathered grains of quartz, mica, feldspar.....	10	10
No sample.....	10	20
Saprolite, very pale-orange to pale yellowish-brown, clayey sand, chiefly weathered grains of quartz, feldspar, mica	10	30
No sample.....	10	40
Mica gneiss, granitic, chiefly feldspar, quartz, biotite, hornblende, sphene, epidote, 10% dark minerals. Some iron staining from 160-170 feet.....	260	300

total depth - 300 feet

Well N66 b3

Saprolite, light-brown, sandy clay, micaceous, chiefly weathered grains of quartz, mica, feldspar.....	10	10
Weathered mica gneiss, very pale-orange, weathered grains of quartz, feldspar, mica.....	10	20
Saprolite, very pale-orange, sandy micaceous clay, weathered grains of mica, quartz, feldspar.....	20	40
Mica gneiss, granitic, chiefly feldspar, quartz, biotite, epidote, sphene, 10% dark minerals.....	280	320

total depth - 320 feet

Well N66 e1

No sample.....	45	45
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	Thickness (feet)	Depth (feet)
Well N66 e1 - continued		
Hornblende gneiss, bluish-white to black, chiefly quartz and hornblende, some pyrite at 95 feet depth and at 135 feet depth, possible quartz vein at 115 feet depth.....	180	225
total depth - 225 feet		

Well N66 f3		
Saprolite, grayish orange-pink, sandy silt, contains weathered grains of quartz, mica flakes, feldspar.....	10	10
Saprolite, color changed to grayish-orange, sandy silt contains clay size particles, contains weathered fragments of quartz, mica, feldspar. Mica fraction increased and not as weathered from 20-30 feet.....	20	30
Saprolite, grayish orange-pink to grayish-orange, weathering not as complete as above, alteration minerals still occupying locations of parent minerals, sample is streaked or banded caused by different colors of alteration minerals (iron and clay minerals which probably include limonite, hematite and kaolinite), grain size is from clay to coarse sand, contains grains of unweathered quartz, feldspar and mica. Sample from 70-80 feet contains some dark-colored weathered hornblende (?)......	50	80
Saprolite as at 30 feet, some fresh grains containing quartz, feldspar, hornblende and biotite.....	20	100
Granite gneiss, some weathering present, minerals are quartz, orthoclase, biotite, olivine and small amount of chlorite (?), hornblende, muscovite. Some pink feldspar from 270-280 feet and from 320-390 feet.....	290	390
Granite gneiss, chiefly quartz, feldspar, biotite, chlorite, olivine, muscovite, garnet (?), hornblende.....	10	400
total depth - 400 feet		

Well N66 g1		
Saprolite, pale reddish-brown to moderate reddish-orange, weathered to silt and minute pieces of weathered quartz.	-	Surface
Saprolite, grayish-orange, weathered to silt but adheres together when wet, composed of decomposed mica and badly weathered quartz and rock fragments. Scattered small pieces of soft black material that is impregnated with mica from 40-50 feet.....	50	50

	Thickness (feet)	Depth (feet)
Well N66 g1 - continued		
Saprolite as above, color is moderate yellowish-brown.....	20	70
Quartz (50%), mica (40%) and feldspar (10%), very light- to medium-gray, soft rock. Rock becomes harder from 80-90 feet. Feldspar increases and mica decreases from 90-120 feet. Scattered pieces show brown stains (weathering) from 120-130 feet.....	60	130
total depth - 130 feet		

Well N66 h2		
Saprolite, grayish-orange to dark yellowish-orange, sandy clay, contains weathered grains of quartz, feldspar, mica.....	30	30
Weathered rock, grain structure still visible, feldspar weathered to kaolin, contains weathered grains of biotite, quartz, iron stained.....	40	70
No sample.....	10	80
Weathered rock as at 70 feet.....	10	90
Diorite, chiefly feldspar, hornblende, quartz, biotite, 40% dark minerals.....	15	105
total depth - 105 feet		

Well N66 h3		
Saprolite, grayish-orange, clay and some sand, consists of weathered feldspar (kaolinite), mica, quartz.....	50	50
Hornblende gneiss and biotite, chiefly quartz, feldspar, hornblende, biotite, some iron staining. More granitic from 75-100 feet. Not iron stained from 100-125 feet...	75	125
Hornblende gneiss, chiefly hornblende, feldspar, quartz, half of sample is iron stained.....	25	150
total depth - 150 feet		

Well N66 j3		
Saprolite, grayish-orange, sandy clay, contains weathered grains of quartz, mica, some kaolin.....	50	50

	Thickness (feet)	Depth (feet)
Well N66 j3 - continued		
Saprolite, light-brown to grayish-orange, clayey sand, chiefly weathered grains of mica, quartz, feldspar, small amount of hornblende.....	25	75
Granite, pink-colored, feldspar is light-red, chiefly feldspar, quartz, chlorite, biotite, hornblende, sphene, 10% dark minerals.....	25	100
Granite as at 100 feet, biotite increased, not all feldspar is light-red.....	50	150
total depth - 150 feet		

Well N66 k3		
Saprolite, moderate reddish-brown, sandy clay, contains weathered grains of quartz and mica.....	10	10
Saprolite, light-brown, clayey sand, weathered grains of quartz, mica, hornblende. Grain size increases from 20-40 feet.....	30	40
Saprolite to weathered rock, pale yellowish-brown, contains quartz, feldspar, hornblende, biotite.....	20	60
Gneiss, granitic, slightly weathered, contains feldspar, quartz, hornblende, biotite, epidote, 20% dark minerals.	35	95
total depth - 95 feet		

Well N66 11		
No sample.....	65	65
Gneiss, chiefly quartz, biotite, feldspar, muscovite.....	25	90
total depth - 90 feet		

Well N66 n1		
Saprolite, moderate yellowish-brown, sandy clay, contains weathered grains of quartz, hornblende.....	10	10
Saprolite, grayish-orange, fine to coarse sand, contains weathered grains of quartz, mica, feldspar, hornblende, no clay fraction. Small amount of clay from 20-80 feet.	70	80

	Thickness (feet)	Depth (feet)
Well N66 n1 - continued		
Weathered rock, same as saprolite, grayish-orange, contains weathered grains of quartz, feldspar, biotite. Grain size increased from 90-100 feet.....	20	100
Granite, slightly weathered, contains quartz, orthoclase, biotite, hornblende, magnetite, some iron staining.....	20	120
No sample.....	5	125
total depth - 125 feet		

Well N66 o2

Saprolite, grayish-orange, clay and some sand, contains weathered grains of quartz, mica, feldspar, magnetite...	100	100
Diorite or granodiorite, chiefly plagioclase, orthoclase, quartz, biotite, hornblende, some magnetite, chlorite, medium-grained, 25% dark minerals.....	70	170
total depth - 170 feet		

Well N66 r1

Saprolite, grayish-orange, sandy clay, contains weathered grains of quartz, feldspar, hornblende, mica.....	30	30
Saprolite, light-brown, sandy clay, contains weathered grains of quartz, feldspar, mica.....	10	40
Diorite, fine-grained, chiefly feldspar, hornblende, biotite, quartz, 30% dark minerals. Sample iron stained from 50-70 feet.....	30	70
Granite or granodiorite, chiefly feldspar, quartz, biotite, hornblende, 10% dark minerals.....	30	100
Diorite as at 70 feet. Iron staining from 100-110 feet and 130-140 feet. Some chlorite from 110-140 feet.....	40	140
Granite as at 80 feet.....	30	170
Diorite as at 70 feet.....	150	320
total depth - 325 feet		

	Thickness (feet)	Depth (feet)
Well N66 t1		
Saprolite, moderate orange-pink to light-brown, clay and sand.....	10	10
Saprolite, light-brown, sandy clay, chiefly clay and grains of quartz, mica, magnetite.....	10	20
Saprolite as at 20 feet, clayey sand texture. Finer-grained sand from 40-50 feet.....	30	50
Saprolite, grayish-orange, fine-grained sand and some coarse sand and clay, chiefly weathered quartz, feldspar, with some mica, magnetite. Grain size increases from 60-70 feet.....	40	90
Weathered granite, chiefly quartz, feldspar, mica, iron stained.....	20	110
Granite, chiefly quartz, feldspar, biotite, hornblende, 25% dark minerals, medium-grained. Weathered zone, iron stained from 120-130 feet.....	25	135
total depth - 135 feet		

Well N66 t2		
Saprolite, light-brown, sandy clay, weathered grains of quartz, some mica. Grain size increases from 40-50 feet	50	50
Saprolite, grayish-orange, sand and some clay, weathered grains of quartz, mica, feldspar, hornblende.....	10	60
Saprolite as at 60 feet, pale yellowish-brown.....	10	70
Weathered rock, granitic, chiefly weathered grains of quartz, feldspar, biotite, hornblende, muscovite.....	10	80
Granite or granodiorite, chiefly feldspar, quartz, hornblende, biotite, some magnetite, some iron staining.....	10	90
No sample.....	10	100
Granite as at 90 feet.....	10	110
No sample.....	5	115
total depth - 115 feet		

	Thickness (feet)	Depth (feet)
Well N66 t3		
Saprolite, light-brown, clayey sand, chiefly weathered grains of quartz, feldspar, mica.....	10	10
Saprolite, light-brown to pale reddish-brown, clayey sand, grain size increased from 10 feet, chiefly weathered quartz, feldspar, mica.....	10	20
No sample.....	10	30
Saprolite as at 20 feet. Color changes to light-brown from 40-70 feet. Grain size increases from 60-70 feet.....	40	70
Saprolite to weathered rock, light-brown to grayish-orange, clayey sand, chiefly weathered grains of quartz, feldspar, mica, hornblende.....	10	80
Granite or granodiorite, chiefly quartz, feldspar, biotite, hornblende, iron stained. From 90-95 feet sample is 40% dark minerals, no iron staining.....	15	95
total depth - 95 feet		

Well N66 t4		
Saprolite, light-brown to moderate yellowish-brown, clayey sand, contains weathered grains of quartz, mica, hornblende, feldspar.....	10	10
Weathered rock, granitic, chiefly quartz, feldspar, biotite, hornblende, grains are iron stained, overall color is pale yellowish-brown to grayish-orange. Amount of weathering decreases from 30-60 feet.....	50	60
Granodiorite or diorite, cuttings finely crushed, contains orthoclase, plagioclase, quartz, biotite, hornblende, 50% dark minerals.....	70	130
No sample.....	20	150
total depth - 150 feet		

Well N66 t7		
No sample.....	75	75

	Thickness (feet)	Depth (feet)
Well N66 t7 - continued		
Diorite, gneissic, fine-grained, chiefly feldspar, hornblende, quartz, biotite, some pyrite, small amount of iron staining, 25% dark minerals, some quartz, feldspar veins in rock, lineation of grains visible.....	80	155

total depth - 155 feet

Well N66 t8

Saprolite, light-brown, clayey sand, chiefly weathered grains of quartz, mica, feldspar.....	30	30
Saprolite as at 30 feet, light-brown to grayish-orange.....	10	40
Granodiorite, medium-grained, chiefly plagioclase, quartz, biotite, hornblende, olivine, 30% dark minerals.....	30	70

total depth - 70 feet

Well N67 b2

Saprolite, dark yellowish-orange to light-brown, sandy clay, contains weathered grains of quartz, mica, magnetite....	30	30
Weathered rock, hornblende gneiss, chiefly hornblende, quartz, feldspar, iron stained.....	20	50
Hornblende gneiss, iron stained, contains hornblende, quartz, feldspar, some biotite, magnetite, olivine, 50% dark minerals. Sample is finer grained from 60-70 feet.....	50	100

total depth - 100 feet

Well N67 b3

Saprolite, pale reddish-brown, clay.....	10	10
Saprolite, moderate orange-pink, clay.....	30	40
Saprolite, light-brown, fine sand and some clay, contains weathered grains of quartz, feldspar, mica, magnetite...	20	60
Saprolite, moderate yellowish-brown, fine sand consisting mainly of mica flakes, also contains quartz, magnetite, feldspar.....	20	80

	Thickness (feet)	Depth (feet)
Well N67 b3 - continued		
Mica gneiss, fine-grained, lineation predominate, contains quartz, biotite, feldspar, some vugs in core sample, possibly some hornblende in sample, 50% dark minerals...	20	100
Mica gneiss as at 100 feet, biotite decreased, 15% dark minerals.....	15	115
total depth - 115 feet		

Well N67 b4		
Saprolite, light-brown, micaceous clay and sand, contains weathered grains of mica and quartz.....	30	30
Saprolite as at 30 feet, color changing to grayish-orange....	20	50
Weathered gneiss, contains quartz, feldspar, hornblende, biotite, iron stained. Hornblende decreases from 60-70 feet.....	30	80
Gneiss, iron stained, contains quartz, feldspar, biotite, hornblende, some magnetite, garnet.....	10	90
No sample.....	6	96
total depth - 96 feet		

Well N67 b5		
Saprolite, dark yellowish-orange, sandy clay, contains weathered grains of quartz, mica, feldspar, magnetite...	25	25
Saprolite, very pale-orange to grayish-orange, sandy clay, contains kaolin, quartz, mica, hornblende, magnetite....	50	75
Gneiss, contains feldspar, quartz, hornblende, biotite, epidote, may be dioritic, 20% dark minerals. Small amount of chlorite from 100-222 feet.....	147	222
total depth - 222 feet		

Well N67 c1		
Saprolite, moderate yellowish-brown, sandy clay, contains weathered grains of quartz, mica, feldspar.....	25	25

	Thickness (feet)	Depth (feet)
Well N67 c1 - continued		
Gneiss, dioritic, contains feldspar, quartz, biotite, hornblende, 25% dark minerals, medium- to coarse-grained. Hornblende increases from 100-325 feet. Sample finer-grained from 275-325 feet.....	300	325
Schist, fine-grained, medium dark-gray, chiefly quartz, biotite. Sample iron stained from 375-400 feet.....	250	575
total depth - 575 feet		

Well N67 i2

Saprolite, moderate reddish-orange, sandy clay, contains weathered grains of quartz, mica in a clay matrix.....	-	Surface
Saprolite, moderate reddish-orange, clayey sand, contains weathered sand-size grains of quartz, mica, feldspar, hornblende, magnetite. Grain size increases from 10-30 feet. Color changes to grayish-orange from 20-30 feet..	30	30
Weathered rock and saprolite, granitic, iron stained, contains quartz, feldspar, biotite, muscovite, hornblende, magnetite.....	10	40
Diorite or granodiorite, medium-grained to fine-grained, chiefly feldspar, quartz, hornblende, biotite, pyrite, chlorite, 30% dark minerals. Sample is medium-grained from 50-60 feet.....	20	60
No sample.....	5	65
total depth - 65 feet		

Well N67 i3

Saprolite, moderate-brown, sandy clay, contains weathered grains of quartz, mica, hornblende in clay matrix.....	-	Surface
Saprolite as at surface, color is light-brown. Mica content increases from 10-40 feet.....	40	40
Saprolite and weathered rock, light-brown, sandy clay and partially weathered grains of quartz, hornblende, mica, feldspar.....	10	50
Gneiss, chiefly quartz, biotite, hornblende, feldspar, 40% dark minerals.....	10	60
total depth - 60 feet (?)		

	Thickness (feet)	Depth (feet)
Well N67 i4		
Saprolite, light-brown, clayey silt, weathered pieces of quartz from 40-82 feet.....	82	82
Granite, weathered, chiefly feldspar, quartz, mica, small amount of hornblende.....	8	90
total depth - 90 feet		

	Thickness (feet)	Depth (feet)
Well N67 j1		
Saprolite, light-brown to moderate reddish-orange, clay and some sand, contains weathered grains of quartz, mica....	-	Surface
Saprolite, light-brown, sandy clay, contains weathered grains of quartz, feldspar, mica, magnetite.....	20	20
Saprolite as at 20 feet, color changed to a moderate orange-pink.....	10	30
Saprolite as at 20 feet, color changed to grayish-orange.....	10	40
No sample.....	10	50
Saprolite as at 20 feet, grain size is increased.....	10	60
Weathered rock, iron stained, contains quartz, orthoclase, plagioclase, biotite, hornblende, 10% dark minerals.....	20	80
Gneiss, dioritic, chiefly feldspar, chlorite, olivine, quartz, hornblende, core includes an olivine vein.....	10	90
Gneiss, iron stained, chiefly feldspar, quartz, biotite, hornblende, some chlorite, 25% dark minerals.....	30	120
Mica gneiss, chiefly feldspar, quartz, biotite, some chlorite, 25% dark minerals.....	40	160
No sample.....	5	165
total depth - 165 feet		

	Thickness (feet)	Depth (feet)
Well N67 ml		
Saprolite, moderate reddish-orange to light-brown, clay and some sand.....	-	Surface

	Thickness (feet)	Depth (feet)
Well N67 ml - continued		
Saprolite, light-brown, sandy clay, contains weathered grains of quartz, mica, feldspar, magnetite.....	10	10
Saprolite, light-brown to grayish-orange, sandy clay, contains weathered grains of mica, quartz, feldspar, magnetite.....	10	20
Saprolite as at 20 feet, grain size is fine- to medium-sand, very little clay.....	20	40
Quartz vein, clear to white massive quartz, some red staining	10	50
Granite, chiefly quartz, orthoclase, biotite, pyrite, some hornblende.....	10	60
No sample.....	10	70

total depth - 70 feet

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