

Drill Hole No. 7
U.S. GEOLOGICAL SURVEY
MENLO PARK
APR 11 1963
T. Lee, U. S. Geological
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Date completed: 9/8/62

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Range in core length and average per run (in feet)	Core recovery per run and cumulative (in percent)	Bit size and type barrel	Casing size and type barrel	Geologic Column showing dip of foliation	Attitude of Joints (Measured from trace of foliation)	Description
0	0	NC, no barrel	NC, 7 1/2" 62			Weathered granite.
0	22	NC, no barrel	NC, 7 1/2" 62			
10	25	NC, no barrel	NC, 7 1/2" 62			Weathered granite, medium-grained, iron-stained, consists of microcline, plagioclase, quartz, and biotite. Feldspars partially altered to clay and biotite to chlorite. Orientation of feldspar and biotite gives rock a distinct foliation. Cut by 0.1 to 1 ft coarse-grained pegmatite dikes. At bottom 0.5 ft of fine- to medium-grained biotite-quartz-feldspar schist and gneiss. At contact between granite and gneiss 0.1 ft of white bull quartz.
20	41	NC, no barrel	NC, 7 1/2" 62			
30	38	NC, no barrel	NC, 7 1/2" 62			
34	34	NC, no barrel	NC, 7 1/2" 62			
37	37	NC, no barrel	NC, 7 1/2" 62			
37	37	NC, no barrel	NC, 7 1/2" 62			
40	36	NC, no barrel	NC, 7 1/2" 62			
40	34	NC, no barrel	NC, 7 1/2" 62			
50	32	NC, no barrel	NC, 7 1/2" 62			
60	31	NC, no barrel	NC, 7 1/2" 62			
60	30	NC, no barrel	NC, 7 1/2" 62			
70	29	NC, no barrel	NC, 7 1/2" 62			
70	28	NC, no barrel	NC, 7 1/2" 62			
80	28	NC, no barrel	NC, 7 1/2" 62			Biotite-quartz-feldspar gneiss, medium-grained. At top 0.5 ft of coarse-grained pegmatite.
90	27	NC, no barrel	NC, 7 1/2" 62			Pegmatite, coarse-grained, fractured.
100	26	NC, no barrel	NC, 7 1/2" 62			Crushed rock. Pieces consist of coarse-grained pegmatite, fine- to medium-grained biotite schist and gneiss, and medium-grained granite. Fragments from 0.1 ft to fine sand in chloritic clay matrix.
100	25	NC, no barrel	NC, 7 1/2" 62			Granite, medium-grained, chloritic
110	24	NC, no barrel	NC, 7 1/2" 62			No core. In cuttings a little biotite and quartz with abundant clay.
110	24	NC, no barrel	NC, 7 1/2" 62			Biotite-quartz-feldspar schist and gneiss, fine- to medium-grained. Biotite altered to chlorite, feldspar to clay.
120	26	NC, no barrel	NC, 7 1/2" 62			Biotite-quartz-feldspar schist and gneiss. Foliation still recognizable, but entire interval altered to chlorite and clay. Top 0.5 and bottom 0.3 foot altered pegmatite.
120	28	NC, no barrel	NC, 7 1/2" 62			Granite and pegmatite, sheared. Biotite completely altered to chlorite, feldspar altered to clay.
130	28	NC, no barrel	NC, 7 1/2" 62			Gneiss and granite, sheared and completely altered to chlorite and clay.
130	28	NC, no barrel	NC, 7 1/2" 62			Granite, sheared and altered to chlorite and clay.
140	28	NC, no barrel	NC, 7 1/2" 62			
150	29	NC, no barrel	NC, 7 1/2" 62			Granite gneiss, and pegmatite, altered to chlorite and clay.
150	29	NC, no barrel	NC, 7 1/2" 62			
160	28	NC, no barrel	NC, 7 1/2" 62			Clay gouge. Grains of quartz and feldspar in chloritic clay. A few pieces of 0.1 ft of altered biotite-quartz-feldspar schist and gneiss. At bottom 2.5 ft of fractured schist and gneiss.
170	24	NC, no barrel	NC, 7 1/2" 62			
180	24	NC, no barrel	NC, 7 1/2" 62			
190	24	NC, no barrel	NC, 7 1/2" 62			
200	25	NC, no barrel	NC, 7 1/2" 62			Biotite-quartz-feldspar gneiss and schist with subparallel bands of pink pegmatite. Altered to chlorite and clay. Mineral grains and altered pieces of rock with clay matrix. Foliation and joints still recognizable. Bottom 1 foot granite sand only partially altered.
210	26	NC, no barrel	NC, 7 1/2" 62			
220	28	NC, no barrel	NC, 7 1/2" 62			
230	28	NC, no barrel	NC, 7 1/2" 62			
240	30	NC, no barrel	NC, 7 1/2" 62			
250	30	NC, no barrel	NC, 7 1/2" 62			
260	32	NC, no barrel	NC, 7 1/2" 62			
270	33	NC, no barrel	NC, 7 1/2" 62			
280	34	NC, no barrel	NC, 7 1/2" 62			
290	34	NC, no barrel	NC, 7 1/2" 62			Small (1-5 mm) grains of chrysocolla and fluorite.
300	35	NC, no barrel	NC, 7 1/2" 62			
310	36	NC, no barrel	NC, 7 1/2" 62			Pegmatite and granite, sheared, altered, and iron-stained. Selenite crystals along shears.
320	36	NC, no barrel	NC, 7 1/2" 62			
330	37	NC, no barrel	NC, 7 1/2" 62			Biotite-quartz-feldspar gneiss and schist with subparallel bands of pink pegmatite 0.1 to 2 ft wide. Partially altered to chlorite and clay.
340	37	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
350	38	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
360	39	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
370	39	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
380	40	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
390	40	NC, no barrel	NC, 7 1/2" 62			Clay gouge.
400	41	NC, no barrel	NC, 7 1/2" 62			Granite and pegmatite, sheared. Biotite altered to chlorite and feldspar partially altered to clay. Granite medium- to coarse-grained, calcite and iron-stained clay on shear surfaces. Cut by 0.1 to 1 ft clay gouge. clay gouge seams locally.
410	41	NC, no barrel	NC, 7 1/2" 62			
420	42	NC, no barrel	NC, 7 1/2" 62			
430	43	NC, no barrel	NC, 7 1/2" 62			
440	43	NC, no barrel	NC, 7 1/2" 62			
450	43	NC, no barrel	NC, 7 1/2" 62			
460	44	NC, no barrel	NC, 7 1/2" 62			
470	44	NC, no barrel	NC, 7 1/2" 62			
480	45	NC, no barrel	NC, 7 1/2" 62			
490	45	NC, no barrel	NC, 7 1/2" 62			
500	46	NC, no barrel	NC, 7 1/2" 62			
510	46	NC, no barrel	NC, 7 1/2" 62			
520	47	NC, no barrel	NC, 7 1/2" 62			
530	47	NC, no barrel	NC, 7 1/2" 62			
540	48	NC, no barrel	NC, 7 1/2" 62			
550	49	NC, no barrel	NC, 7 1/2" 62			
560	49	NC, no barrel	NC, 7 1/2" 62			
570	50	NC, no barrel	NC, 7 1/2" 62			
580	51	NC, no barrel	NC, 7 1/2" 62			
590	51	NC, no barrel	NC, 7 1/2" 62			
600	52	NC, no barrel	NC, 7 1/2" 62			
610	52	NC, no barrel	NC, 7 1/2" 62			
620	52	NC, no barrel	NC, 7 1/2" 62			
630	52	NC, no barrel	NC, 7 1/2" 62			
640	52	NC, no barrel	NC, 7 1/2" 62			
650	52	NC, no barrel	NC, 7 1/2" 62			
660	52	NC, no barrel	NC, 7 1/2" 62			
670	52	NC, no barrel	NC, 7 1/2" 62			
680	52	NC, no barrel	NC, 7 1/2" 62			
690	52	NC, no barrel	NC, 7 1/2" 62			
700	52	NC, no barrel	NC, 7 1/2" 62			
710	52	NC, no barrel	NC, 7 1/2" 62			
720	52	NC, no barrel	NC, 7 1/2" 62			
730	52	NC, no barrel	NC, 7 1/2" 62			
740	52	NC, no barrel	NC, 7 1/2" 62			
750	52	NC, no barrel	NC, 7 1/2" 62			
760	52	NC, no barrel	NC, 7 1/2" 62			
770	52	NC, no barrel	NC, 7 1/2" 62			
780	52	NC, no barrel	NC, 7 1/2" 62			
790	52	NC, no barrel	NC, 7 1/2" 62			
800	52	NC, no barrel	NC, 7 1/2" 62			
810	52	NC, no barrel	NC, 7 1/2" 62			
820	52	NC, no barrel	NC, 7 1/2" 62			
830	52	NC, no barrel	NC, 7 1/2" 62			
840	52	NC, no barrel	NC, 7 1/2" 62			
850	52	NC, no barrel	NC, 7 1/2" 62			
860	52	NC, no barrel	NC, 7 1/2" 62			
870	52	NC, no barrel	NC, 7 1/2" 62			
880	52	NC, no barrel	NC, 7 1/2" 62			
890	52	NC, no barrel	NC, 7 1/2" 62			
900	52	NC, no barrel	NC, 7 1/2" 62			
910	52	NC, no barrel	NC, 7 1/2" 62			
920	52	NC, no barrel	NC, 7 1/2" 62			
930	52	NC, no barrel	NC, 7 1/2" 62			
940	52	NC, no barrel	NC, 7 1/2" 62			
950	52	NC, no barrel	NC, 7 1/2" 62			
960	52	NC, no barrel	NC, 7 1/2" 62			
970	52	NC, no barrel	NC, 7 1/2" 62			
980	52	NC, no barrel	NC, 7 1/2" 62			
990	52	NC, no barrel	NC, 7 1/2" 62			
1000	52	NC, no barrel	NC, 7 1/2" 62			
1010	52	NC, no barrel	NC, 7 1/2" 62			
1020	52	NC, no barrel	NC, 7 1/2" 62			
1030	52	NC, no barrel	NC, 7 1/2" 62			
1040	52	NC, no barrel	NC, 7 1/2" 62			
1050	52	NC, no barrel	NC, 7 1/2" 62			
1060	52	NC, no barrel	NC, 7 1/2" 62			
1070	52	NC, no barrel	NC, 7 1/2" 62			
1080	52	NC, no barrel	NC, 7 1/2" 62			
1090	52	NC, no barrel	NC, 7 1/2" 62			
1100	52	NC, no barrel	NC, 7 1/2" 62			
1110	52	NC, no barrel	NC, 7 1/2" 62			
1120	52	NC, no barrel	NC, 7 1/2" 62			
1130	52	NC, no barrel	NC, 7 1/2" 62			
1140	52	NC, no barrel	NC, 7 1/2" 62			
1150	52	NC, no barrel	NC, 7 1/2" 62			
1160	52	NC, no barrel	NC, 7 1/2" 62			
1170	52	NC, no barrel	NC, 7 1/2" 62			
1180	52	NC, no barrel	NC, 7 1/2" 62			
1190	52	NC, no barrel	NC, 7 1/2" 62			
1200	52	NC, no barrel	NC, 7 1/2" 62			
1210	52	NC, no barrel	NC, 7 1/2" 62			
1220	52	NC, no barrel	NC, 7 1/2" 62			
1230	52	NC, no barrel	NC, 7 1/2" 62			
1240	52	NC, no barrel	NC, 7 1/2" 62			
1250	52	NC, no barrel	NC, 7 1/2" 62			
1260	52	NC, no barrel	NC, 7 1/2" 62			
1270	52	NC, no barrel	NC, 7 1/2" 62			
1280	52	NC, no barrel	NC, 7 1/2" 62			
1290	52	NC, no barrel	NC, 7 1/2" 62			
1300	52	NC, no barrel	NC, 7 1/2" 62			
1310	52	NC, no barrel	NC, 7 1/2" 62			
1320	52	NC, no barrel	NC, 7 1/2" 62			
1330	52	NC, no barrel	NC, 7 1/2" 62			
1340	52	NC, no barrel	NC, 7 1/2" 62			
1350	52	NC, no barrel	NC, 7 1/2" 62			
1360	52	NC, no barrel	NC, 7 1/2" 62			
1370	52	NC, no barrel	NC, 7 1/2" 62			
1380	52	NC, no barrel	NC, 7 1/2" 62			
1390	52	NC, no barrel	NC, 7 1/2" 62			
1400	52	NC, no barrel	NC, 7 1/2" 62			
1410	52	NC, no barrel	NC, 7 1/2" 62			
1420	52	NC, no barrel	NC, 7 1/2" 62			
1430	52	NC, no barrel	NC, 7 1/2" 62			
1440	52	NC, no barrel	NC, 7 1/2" 62			
1450	52	NC, no barrel	NC, 7 1/2" 62			
1460	52	NC, no barrel	NC, 7 1/2" 62			
1470	52	NC, no barrel	NC, 7 1/2" 62			
1480	52	NC, no barrel	NC, 7 1/2" 62			
1490	52	NC, no barrel	NC, 7 1/2" 62			
1500	52	NC, no barrel	NC, 7 1/2" 62			
1510	52	NC, no barrel	NC, 7 1/2" 62			
1520	52	NC, no barrel	NC, 7 1/2" 62			
1530	52	NC, no barrel	NC, 7 1/2" 62			
1540	52	NC, no barrel	NC, 7 1/2" 62			
1550	52	NC, no barrel	NC, 7 1/2" 62			
1560	52	NC, no barrel	NC, 7 1/2" 62			
1570	52	NC, no barrel	NC, 7 1/2" 62			
1580	52	NC, no barrel	NC, 7 1/2" 62			
1590	52	NC, no barrel	NC, 7 1/2" 62			
1600	52	NC, no barrel	NC, 7 1/2" 62			
1610	52	NC, no barrel	NC, 7 1/2" 62			
1620	52	NC, no barrel	NC, 7 1/2" 62			
1630	52	NC, no barrel	NC, 7 1/2" 62			
1640	52	NC, no barrel	NC, 7 1/2" 62			
1650	52	NC, no barrel	NC, 7 1/2" 62			
1660	52	NC, no barrel	NC, 7 1/2" 62			
1670	52	NC, no barrel	NC, 7 1/2" 62			
1680	52	NC, no barrel	NC, 7 1/2" 62			
1690	52	NC, no barrel	NC, 7 1/2" 62			
1700	52	NC, no barrel	NC, 7 1/2" 62			
1710	52	NC, no barrel	NC, 7 1/2" 62			
1720	52	NC, no barrel	NC, 7 1/2" 62			
1730	52	NC, no barrel	NC, 7 1/2" 62			
1740	52	NC, no barrel	NC, 7 1/2" 62			
1750	52	NC, no barrel	NC, 7 1/2" 62			
1760	52	NC, no barrel	NC, 7 1/2" 62			
1770	52	NC, no barrel	NC, 7 1/2" 62			
1780	52	NC, no barrel	NC, 7 1/2" 62			
1790	52	NC, no barrel	NC, 7 1/2" 62			
1800	52	NC, no barrel	NC, 7 1/2" 62			
1810	52	NC, no barrel	NC, 7 1/2" 62			
1820	52	NC, no barrel	NC, 7 1/2" 62			
1830	52	NC, no barrel	NC, 7 1/2" 62			
1840	52	NC, no barrel	NC, 7 1/2" 62			
1850	52	NC, no barrel	NC, 7 1/2" 62			
1860	52	NC, no barrel	NC, 7 1/2" 62			
1870	52	NC, no barrel	NC, 7 1/2" 62			
1880	52	NC, no barrel	NC, 7 1/2" 62			
1890	52	NC, no barrel	NC, 7 1/2" 62			
1900						