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TABLE 1. Analyses of rocks of pre-Triassic age, New Haven County, Connecticut

[Analyst, Dorothy F. Powers, 1958 and 1959]

	Igneous and metaigneous rocks				Metasedimentary rocks				
	Prospect Gneiss		Ansonia Gneiss	Woodbridge Granite	Straits Schist	Wepawaug Schist	Impure marble	Biotitic limestone	Pyritic limestone
	Nonporphyroblastic	Porphyroblastic							
Sample number-	1	2	3	4	1/ 5	2/ 6	7	3/ 8	3/ 9
Laboratory number	E-2201	E-2202	E-2196	E-2195	E-2203	E-2197	F-2432	F-2431	F-2430
Standard chemical analysis									
SiO_2	64.89	70.40	74.13	72.23	67.75	68.11	24.06	22.42	28.03
Al_2O_3	15.46	14.72	13.87	15.65	15.70	15.55	6.13	10.49	5.29
Fe_2O_3	.72	.46	.44	.34	.96	.90	1.15	.89	.71
FeO	4.58	2.43	.90	.64	4.95	4.14	1.28	4.43	1.97
MgO	1.59	.72	.25	.43	1.65	1.95	2.02	4.24	3.73
CaO	3.46	1.87	.90	1.86	.44	.17	37.54	28.30	28.88
Na_2O	3.63	3.45	3.18	5.87	.98	1.73	.38	.88	.14
K_2O	3.24	4.31	5.43	1.38	3.07	2.79	.96	2.32	1.48
H_2O+	.69	.47	.23	.68	2.63	2.98	.40	1.74	.67
H_2O-	.05	.04	.03	.11	.06	.06	.22	.46	.04
TiO_2	.89	.42	.18	.13	.91	.86	.34	.57	.27
P_2O_5	.21	.14	.10	.05	.11	.10	.07	.18	.13
MnO	.12	.09	.04	.03	.09	.07	.10	.53	.30
CO_2	.06	.06	.02	.24	.11	.04	25.14	20.56	27.30
Total	99.59	99.58	99.70	99.64	99.41	99.45	99.79	98.01	98.94
Spectrographic analysis									
B	-----	-----	-----	-----	0.003	0.007	-----	-----	-----
Ba	.07	.03	.03	.03	.03	.03	.07	.03	.015
Be	.00015	.0003	.00015	------	.00015	.00015	-----	-----	------
Co	.0015	-----	------	------	.0015	.003	.0003	.0003	.0003
Cr	.0007	.0003	.00015	.0003	.007	.015	.003	.003	.003
Cu	.003	.0007	.0003	.0003	.015	.0015	.00015	-----	.0007
Ga	.0015	.0015	.0015	.003	.0015	.0015	.00015	.00015	-----
La	.007	.003	.003	------	-------	.003	------	.003	-----
Ni	.0015	------	------	------	.007	.007	.0015	.0015	.0007
Pb	.0015	.003	.003	.003	.0015	.0015	------	.0015	-----
Sc	.003	.0007	-----	------	.0015	.0015	.0007	.0015	-----
Sr	.03	.015	.007	.15	.007	.007	.05	.07	.07
V	.007	.003	.0015	.0015	.007	.007	.007	.007	.003
Y	.007	.003	.003	------	.003	.003	.0015	.0015	.0007
Yb	.0007	.0007	.0003	------	.0007	.0007	.00015	.00015	------
Zr	.03	.03	.015	.007	.03	.03	.007	.007	.0015
Total	0.16455	0.0912	0.0649	0.1951	0.11585	0.11885	0.12145	0.12660	0.0949

1/ Analyst reported small quantity of unidentified dark opaque material that may have been carbonaceous. Rock is known to contain minor graphite.

2/ Analyst reported presence of carbon, but total carbon content probably less than 0.5 percent.

3/ Analyst reported high carbon.

1. An 8-lb composite sample consisting of selected specimens of fresh, coarse-grained, hornblende-bearing granodiorite gneiss from large block removed from north wall of road cut on abandoned trolley line approximately 1,550 ft east-southeast of Summit and Plank Roads intersection near boundary between Towns of Cheshire and Prospect.

2. An 8-lb composite sample consisting of selected specimens of fresh, coarse-grained quartz monzonite gneiss (characterized by 3-in. microcline porphyroblasts) from east wall of road cut on State Route 69 approximately 1,250 ft north of Gaylord Mountain Road intersection, Town of Bethany.

3. An 8-lb composite sample consisting of selected specimens of fresh, medium-grained granitic gneiss from large block at Potter quarry 300 ft east of Old Ansonia Road (about 800 ft north of Ansonia town line), Town of Seymour.

4. An 8-lb composite sample consisting of selected specimens of fresh, medium- to coarse-grained oligoclase granite from interior of large angular block excavated at homesite on south side of Appletree Lane approximately 2,500 ft northeast of intersection of State Routes 63 and 67, Town of Woodbridge.

5. An 8-lb composite sample consisting of selected specimens of slightly altered coarse-grained, staurolite-bearing muscovite schist from interior of large angular block excavated at site of new Prospect Grammar School approximately 2,000 ft south-southeast of intersection of State Routes 68 and 69, Town of Prospect.

6. A 4-lb composite sample consisting of selected specimens of fresh fine-grained, nongarnetiferous, nonbiotitic phyllite from new road cut on State Route 69 approximately 1,400 ft north of spillway at Lake Watrous Reservoir, Town of Woodbridge.

7. A 1/2-lb selected specimen of fresh, medium-grained marble from near top of Straits Schist from outcrop on north shore of New Naugatuck or Long Hill Reservoir, Town of Prospect.

8. A 1/2-lb selected specimen of medium- to fine-grained biotitic limestone from Wepawaug Schist outcrop on north shore of Bethany Lake, Town of Bethany.

9. A 1/2-lb selected specimen of fine-grained, pyritic limestone from Wepawaug Schist outcrop on west side of Route 69 (Litchfield Turnpike) approximately 1,300 ft north of Dillon Road intersection, Town of Woodbridge.

This report is preliminary and has not been edited for conformity with Geological Survey format