SET NO. 4, 75 SAMPLES OF SILICEOUS BLACK SHALE FROM THE ORDOVICIAN AND SILURIAN GRAPTOLITIC SHALE FACIES, CALIFORNIA, NEVADA, IDAHO, WASHINGTON, AND BRITISH COLUMBIA

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[All analyses by the six-step spectrographic method, J. C. Hamilton and Chris Heropoulos, analysts. Results are reported in percent to the nearest number in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, and 0.1, etc., which represent approximate midpoints of group data on a geometric scale. The assigned group will include the quantitative value about 30 percent of the time. Symbols used are as follows: G, greater than value indicated; N, not detected, or less than the limit of detection]

LOCALITY NUMBER	SAMPLE NUMBER	ELEMENT AL	FE	MG	CA	CO	CR	CU	GA	SC	SR
1	D112041	3.00000	1.00000	3.00000	5.00000	.000000N	.005000	.005000	.002000	.000700	.050000
1	D112042	1.50000	.200000	.300000	.150000	.000000N	.005000	.000700	.001000	.000700	.002000
1	D112043	7.00000	2.00000	.700000	2.00000	.000000N	.030000	.007000	.003000	.001500	.050000
2	D112044	3.00000	.300000	.500000	.100000	.000000N	.015000	.003000	.001000	.000700	.005000
3	D112045	1.50000	3.00000	2.00000	7.00000	.001500	.005000	.005000	.000700	.007000	.015000
3	D112046	3.00000	5.00000	3.00000	7.00000	.001000	.010000	.005000	.001000	.001000	.020000
3	D112047	.700000	1.50000	.300000	3.00000	.000000N	.000500	.003000	.000000N	.000000N	.005000
4	D112049	7.00000	1.50000	.700000	.100000	.000000N	.010000	.005000	.001500	.001000	.010000
5	D112052	7.00000	2.00000	.700000	.200000	.000000N	.020000	.020000	.003000	.001500	.010000
5	D112053	3.00000	3.00000	.700000	.200000	.002000	.020000	.030000	.003000	.001500	.010000
6	D112054	7.00000	5.00000	1.00000	.300000	.000700	.030000	.050000	.005000	.002000	.010000
7	D112055	7.00000	2.00000	1.50000	.100000	.000000N	.010000	.005000	.002000	.001500	.005000
8	D112056	7.00000	1.00000	.700000	.050000	.000000N	.015000	.005000	.002000	.001000	.010000
9	D112057	1.50000	.500000	.200000	.300000	.000000N	.015000	.003000	.001000	.000000N	.003000
10	D112058	7.00000	2.00000	2.00000	.300000	.002000	.010000	.005000	.002000	.001000	.005000
11	D112059	1.50000	.500000	.200000	.050000	.000000N	.003000	.007000	.000500	.000000N	.007000
12	D112060	3.00000	1.00000	.200000	.200000	.000000N	.010000	.003000	.001500	.000700	.150000
13	D112061	3.00000	.500000	.300000	.200000	.000000N	.007000	.003000	.001500	.000700	.010000
14	D112062	3.00000	1.00000	.700000	.500000	.000000N	.005000	.003000	.001500	.000700	.007000
15	D111955	7.00000	1.00000	3.00000	5.00000	.000000N	.007000	.010000	.001500	.001500	.010000
15	D111956	3.00000	.500000	.700000	.500000	.000000N	.005000	.005000	.001000	.000700	.003000
16	D111957	7.00000	1.00000	.500000	.070000	.000000N	.020000	.007000	.003000	.001500	.010000
16	D111958	7.00000	1.50000	.500000	.050000	.000000N	.020000	.005000	.003000	.001500	.015000
16	D111959	7.00000	1.00000	.500000	.030000	.000000N	.020000	.003000	.003000	.001000	.010000
17	D111960	1.50000	2.00000	.500000	.030000	.000000N	.005000	.007000	.001500	.000700	.007000
18	D111961	7.00000	3.00000	7.00000	5.00000	.000700	.007000	.001500	.002000	.001500	.010000
19	D111962	3.00000	.500000	.500000	.150000	.000000N	.007000	.010000	.001500	.000700	.010000
19	D111963	3.00000	.700000	.500000	.100000	.000000N	.010000	.003000	.002000	.000700	.015000
20	D111964	3.00000	1.50000	1.00000	2.00000	.000000N	.007000	.005000	.001500	.001000	.020000
21	D111965	1.50000	.700000	3.00000	5.00000	.000000N	.020000	.020000	.001500	.000000N	.020000
22	D111971	3.00000	1.00000	1.00000	1.50000	.000000N	.015000	.010000	.002000	.001000	.015000
22	D111972	3.00000	1.50000	.700000	.500000	.000000N	.010000	.030000	.001500	.001000	.015000
23	D111973	3.00000	2.00000	.700000	.300000	.000700	.005000	.005000	.001500	.001000	.010000
24	D111974	7.00000	2.00000	.700000	5.00000	.000700	.015000	.000700	.002000	.001500	.015000
25	D111976	3.00000	.500000	.300000	.300000	.000000N	.010000	.005000	.001500	.000700	.010000
26	D111977	3.00000	1.50000	1.00000	.500000	.000700	.007000	.005000	.001500	.001000	.010000
27	D111978	3.00000	1.50000	.700000	.300000	.000000N	.005000	.010000	.000700	.000700	.010000
28	D111979	3.00000	.700000	.700000	.100000	.000000N	.010000	.010000	.001500	.001000	.005000
29	D111980	7.00000	1.50000	.700000	.150000	.000000N	.010000	.010000	.002000	.001000	.005000
29	D111981	3.00000	2.00000	.700000	.200000	.000000N	.007000	.010000	.001000	.001000	.007000
30	D111982	7.00000	1.50000	1.50000	.300000	.000700	.007000	.007000	.002000	.001000	.010000
31	D111983	3.00000	.700000	.700000	.070000	.000000N	.020000	.002000	.003000	.001000	.003000
32	D111984	7.00000	2.00000	.700000	.070000	.000000N	.007000	.010000	.002000	.001500	.005000
33	D111990	10.0000G	5.00000	2.00000	.200000	.001000	.010000	.000000N	.003000	.001500	.010000
33	D111991	10.0000G	3.00000	2.00000	.150000	.001000	.007000	.000000N	.003000	.001500	.005000
34	D111996	7.00000	1.00000	1.50000	3.00000	.000700	.010000	.003000	.003000	.001500	.050000
34	D111997	7.00000	.300000	.500000	2.00000	.000000N	.030000	.003000	.002000	.001500	.050000
34	D111998	1.50000	.300000	.200000	.070000	.000000N	.010000	.005000	.001000	.000700	.007000
35	D111999	3.00000	.500000	.300000	.300000	.000000N	.005000	.005000	.001000	.000000N	.005000
36	D112000	3.00000	1.00000	1.50000	5.00000	.000000N	.005000	.005000	.001500	.000700	.010000
36	D112001	7.00000	5.00000	1.50000	.100000	.001500	.015000	.001500	.003000	.002000	.010000
37	D112002	3.00000	2.00000	3.00000	10.0000G	.000700	.007000	.000700	.001500	.001500	.010000
37	D112003	3.00000	1.50000	1.50000	2.00000	.000700	.001000	.005000	.002000	.001000	.005000
38	D112004	1.50000	.700000	1.00000	7.00000	.000000N	.015000	.010000	.001000	.000000N	.030000
39	D112008	3.00000	.700000	5.00000	10.0000G	.000000N	.030000	.020000	.000700	.001500	.030000
39	D112010	3.00000	1.50000	7.00000	7.00000	.000000N	.020000	.007000	.001500	.001500	.030000
40	D112012	1.50000	1.00000	7.00000	10.0000G	.000000N	.007000	.001500	.001000	.000000N	.015000
40	D112013	1.50000	.500000	2.00000	10.0000G	.000000N	.030000	.007000	.000700	.000700	.030000
40	D112014	3.00000	1.50000	5.00000	7.00000	.000000N	.010000	.003000	.001500	.001000	.015000
41	D403184	7.00000	3.00000	1.50000	.100000	.000700	.010000	.015000	.003000	.002000	.005000
42	D403185	3.00000	2.00000	.500000	.070000	.000000N	.003000	.005000	.001000	.001000	.005000
42	D403186	10.0000G	3.00000	.700000	.100000	.001000	.010000	.010000	.002000	.002000	.005000
43	D403187	10.0000G	3.00000	1.00000	.150000	.000000N	.005000	.005000	.002000	.001500	.010000
44	D403188	10.0000G	3.00000	1.00000	.050000	.000000N	.003000	.003000	.002000	.001500	.007000
45	D403190	10.0000G	2.00000	1.50000	.070000	.000000N	.020000	.002000	.003000	.001500	.005000
46	D403194	7.00000	1.00000	2.00000	1.00000	.000000N	.007000	.005000	.001500	.001000	.010000
47	D403195	1.50000	.700000	.700000	.300000	.000000N	.003000	.005000	.000500	.000000N	.002000
48	D403196	10.0000G	3.00000	1.50000	1.00000	.000700	.020000	.010000	.003000	.001500	.010000
49	D403198	7.00000	1.50000	1.50000	5.00000	.000000N	.010000	.005000	.002000	.001500	.020000
50	D402939	3.00000	1.00000	.500000	.150000	.000000N	.007000	.007000	.000700	.000700	.003000
50	D402940	1.50000	1.50000	.700000	.700000	.000000N	.010000	.007000	.000500	.000000N	.005000
50	D402941	1.50000	5.00000	2.00000	5.00000	.001000	.005000	.005000	.000700	.000000N	.005000
51	D402942	7.00000	1.00000	.700000	.100000	.000000N	.020000	.003000	.003000	.001500	.010000
51	D402943	7.00000	2.00000	1.00000	.700000	.000700	.010000	.020000	.003000	.001500	.015000
51	D402944	7.00000	1.50000	1.00000	.200000	.000000N	.010000	.005000	.003000	.001000	.007000