

Table 4. Thermal maturity data from Devonian samples from the subsurface of New York.

API NUMBER	STATE	COUNTY	TOWNSHIP (or 71/2'	quad)	LATITUDE (N)	LONGITUDE (W)	LEASE NAME	STRATIGRAPHIC UNIT	CONODONT AGE	SAMPLE TYPE
31-003-00354	New York	Allegany		Hume	42.46947	-78.15479	M. Connor No. 1	Genundewa Limestone	Post Early Ordovician Paleozoic	cuttings
31-003-02681	New York	Allegany		Hume	42.4692	-78.18133	Thomas No. 1	Penn Yan Shale	No older than Devonian	cuttings
31-003-02681	New York	Allegany		Hume	42.4692	-78.18133	Thomas No. 1	Lodi Limestone	Devonian	cuttings
31-003-02681	New York	Allegany		Hume	42.4692	-78.18133	Thomas No. 1	Genesee Formation	Post Early Ordovician Paleozoic	cuttings
31-003-13549	New York	Allegany		Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Genundewa Limestone	Late Devonian	core
31-003-13549	New York	Allegany		Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Lodi Limestone	Late Devonian	core
31-003-13549	New York	Allegany		Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Genundewa Limestone	Late Devonian	core
31-003-13549	New York	Allegany		Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Lodi Limestone	Middle to Late Devonian	core
31-007-05087	New York	Broome		Triangle	42.32346	-75.94786	Richards No. 1	Marcellus Shale	Middle Devonian	cuttings
31-007-06636	New York	Broome		Triangle	42.40618	-75.8774	C. Smith No. 1	Helderberg Group	Post Early Ordovician Paleozoic	cuttings
31-009-09235	New York	Cattaraugus		Allegany	42.00866	-78.56875	E.T.S. No. 1	Genundewa Limestone	indet.	cuttings
31-009-08610	New York	Cattaraugus		Otto	42.37142	-78.84315	Manning No. 1	Marcellus Shale	Middle Devonian	cuttings
31-011-11632	New York	Cayuga		Owasco	42.91694	-76.50542	Steimle No. 9	Marcellus Shale	Middle Devonian	cuttings
31-011-11632	New York	Cayuga		Owasco	42.91694	-76.50542	Steimle No. 9	Helderberg Group	Post Early Ordovician Paleozoic	cuttings
31-013-03200	New York	Chautauqua		Harmony	42.06821	-79.41556	Morse No. 1	Pipe Creek Shale; Rhinestreet Shale	Late Devonian	cuttings
31-013-03200	New York	Chautauqua		Harmony	42.06821	-79.41556	Morse No. 1	Moscow-Ludlowville	Post Early Ordovician Paleozoic	cuttings
31-013-04437	New York	Chautauqua		Ellery	42.18421	-79.33785	Harrington No. 1	Genesee Group	Indet.	cuttings
31-015-00443	New York	Chemung		Van Etten	42.19857	-76.53807	Kesseling No. 1	Genesee Group	Indet.	cuttings
31-015-00443	New York	Chemung		Van Etten	42.19857	-76.53807	Kesseling No. 1	Genesee Group	Middle to Late Devonian	cuttings
31-015-00443	New York	Chemung		Van Etten	42.19857	-76.53807	Kesseling No. 1	Marcellus Shale	Middle Devonian	cuttings
31-017-01160	New York	Chenango		Columbus	42.69328	-75.34506	Lobdell No. 1	Skaneateles Formation	Middle Devonian	cuttings
31-017-01160	New York	Chenango		Columbus	42.69328	-75.34506	Lobdell No. 1	Marcellus Shale	Middle Devonian	cuttings
31-023-04714	New York	Cortland		Freetown	42.51847	-76.00093	Clough No. 1	Marcellus Shale	Middle Devonian	cuttings
31-023-04714	New York	Cortland		Freetown	42.51847	-76.00093	Clough No. 1	Helderberg Group	Late Silurian-Early Devonian	cuttings
31-029-11730	New York	Erie		Wales	42.71383	-78.51733	Foss No. 1	Marcellus Shale	Middle Devonian	cuttings
31-037-10776	New York	Genesee		Alexander	42.92045	-78.16734	Danby Belt No. 1	Ludlowville Formation	Post Early Ordovician Paleozoic	cuttings
31-037-10776	New York	Genesee		Alexander	42.92045	-78.16734	Danby Belt No. 1	Centerfield Limestone Member, Ludlowville Formation	Post Early Ordovician Paleozoic	cuttings
31-037-10776	New York	Genesee		Alexander	42.92045	-78.16734	Danby Belt No. 1	Marcellus Shale	Middle Devonian	cuttings
31-051-04069	New York	Livingston		York	42.87157	-77.93213	McDonald No. 1	Marcellus Shale	Middle Devonian	cuttings
31-051-04391	New York	Livingston		York	42.82758	-77.9356	J. Parnell	Genesee Group	Late Devonian	cuttings
31-051-04391	New York	Livingston		York	42.82758	-77.9356	J. Parnell	Marcellus Shale	Middle Devonian	cuttings
31-051-04630	New York	Livingston		Sparta	42.65023	-77.75596	Kennedy No. 1	Genundewa Limestone	Post Early Ordovician Paleozoic	cuttings
31-051-04630	New York	Livingston		Sparta	42.65023	-77.75596	Kennedy No. 1	Lodi Limestone	indet.	cuttings
31-051-04630	New York	Livingston		Sparta	42.65023	-77.75596	Kennedy No. 1	Genesee Shale	Middle Devonian	cuttings
31-051-04630	New York	Livingston		Sparta	42.65023	-77.75596	Kennedy No. 1	Marcellus Shale	Middle Devonian	cuttings
31-053-04032	New York	Madison		Brookfield	42.7963	-75.40464	Danisevich No. 1	Skaneateles Group	Devonian	cuttings
31-053-04032	New York	Madison		Brookfield	42.7963	-75.40464	Danisevich No. 1	Marcellus Shale	Middle Devonian	cuttings
31-067-11654	New York	Onondaga		Otisco	42.89831	-76.23852	Sears No. 1	Moscow Shale	Post Early Ordovician Paleozoic	cuttings
31-067-11654	New York	Onondaga		Otisco	42.89831	-76.23852	Sears No. 1	Skaneateles Group	indet.	cuttings
31-067-12163	New York	Onondaga		Marcellus	42.93688	-76.34586	Harrison No. 1	Marcellus Shale	Middle Devonian	cuttings
31-067-12163	New York	Onondaga		Marcellus	42.93688	-76.34586	Harrison No. 1	Cherry Valley Limestone	Post Early Ordovician Paleozoic	cuttings
31-069-06395	New York	Ontario		Gorham	42.81262	-77.20285	Frankish No. 1	Tichenor Limestone	indet.	cuttings
31-069-06395	New York	Ontario		Gorham	42.81262	-77.20285	Frankish No. 1	Marcellus Shale	Middle Devonian	cuttings
31-097-19692	New York	Schulyer		Reading	42.43251	-76.97039	L. Perigo No. 1	Lodi Limestone	Post Early Ordovician Paleozoic	cuttings
31-097-19692	New York	Schulyer		Reading	42.43251	-76.97039	L. Perigo No. 1	Genesee Shale	Post Early Ordovician Paleozoic	cuttings
31-097-19692	New York	Schulyer		Reading	42.43251	-76.97039	L. Perigo No. 1	Marcellus Shale	Middle Devonian	cuttings
31-099-04203	New York	Seneca		Fayette	42.8762	-76.85854	Schaffer No. 2	Marcellus Shale	Middle Devonian	cuttings
31-101-03924	New York	Steuben		Woodhull	43.06303	-77.43067	Olin No. 1	Genundewa Limestone	indet.	cuttings
31-101-03924	New York	Steuben		Woodhull	43.06303	-77.43067	Olin No. 1	Genesee Shale	indet.	cuttings
31-101-04573	New York	Steuben		Campbell	42.23546	-77.22256	Scudder No. 1	Genundewa Limestone	indet.	cuttings
31-101-04573	New York	Steuben		Campbell	42.23546	-77.22256	Scudder No. 1	Lodi Limestone	Post Early Ordovician Paleozoic	cuttings
31-101-04573	New York	Steuben		Campbell	42.23546	-77.22256	Scudder No. 1	Genesee Shale	indet.	cuttings
31-101-21468	New York	Steuben		Avoca	42.41958	-77.45354	Avoca No. 1	Lodi Limestone	indet.	cuttings
31-101-21468	New York	Steuben		Avoca	42.41958	-77.45354	Avoca No. 1	Marcellus Shale	Middle Devonian	cuttings
31-101-21468	New York	Steuben		Avoca	42.41958	-77.45354	Avoca No. 1	Genesee Shale	Post Early Ordovician Paleozoic	cuttings
31-109-10243	New York	Tompkins		Enfield	42.40099	-76.66854	R. Place No. 1	Marcellus Shale	Middle Devonian	cuttings
31-109-10243	New York	Tompkins		Enfield	42.40099	-76.66854	R. Place No. 1	Cherry Valley Limestone	indet.	cuttings
31-109-10243	New York	Tompkins		Enfield	42.40099	-76.66854	R. Place No. 1	Manlius Limestone	Paleozoic	cuttings
31-109-13173	New York	Tompkins		Lansing	42.52296	-76.5052	Cargill Cove Test No. 17	Lodi Limestone	Post Early Ordovician Paleozoic	core
31-121-22042	New York	Wyoming		Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Genundewa Limestone	indet.	cuttings
31-121-22042	New York	Wyoming		Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Lodi Limestone	Devonian	cuttings
31-121-22042	New York	Wyoming		Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Marcellus Shale	Middle Devonian	cuttings
31-123-04796	New York	Yates		Benton	42.68333	-76.9779	Borglum No. 1	Genundewa Limestone	indet.	cuttings
31-123-04796	New York	Yates		Benton	42.68333	-76.9779	Borglum No. 1	Lodi Limestone	indet.	cuttings
31-123-04796	New York	Yates		Benton	42.68333	-76.9779	Borglum No. 1	Genesee Shale	indet.	cuttings
31-123-04796	New York	Yates		Benton	42.68333	-76.9779	Borglum No. 1	Marcellus Shale	Middle Devonian	cuttings

Table 4. Thermal maturity data from Devonian samples from the subsurface of New York.

API NUMBER	INTERVAL	SAMPLE MASS (g)	USGS PALEONTOLOGY COLLECTION #	CAI min	CAI max	VTE	TOC	S1	S2	S3	Tmax	HI	OI	PI	% Ro (mean)	Readings for Ro	TAI
31-003-00354	1882'-1900'	18	12691-SD	2	2												
31-003-02681	1889'-1936'	122	12692-SD	1.5	1.5												
31-003-02681	1936'-1945'	28	12693-SD	2	2												
31-003-02681	1945'-1958'	39	12694-SD	2	2												
31-003-13549	2730.7'-2731.5'	280	12695-SD	2	2.5												
31-003-13549	2731.9'						2.95	1.46	2.78	0.18	451	94	6	0.34	1.05	23	
31-003-13549	2732'-2732.3'	210	12696-SD	2	2.5												
31-003-13549	2867.8'-2868.8'	2700	12697-SD	2	2.5												
31-007-05087	2530'-2650'						0.26	0.09	0.06	0.72	387	23	277	0.6	2.12	19	
31-007-06636	3235'-3460'	71	12698-SD	3	3												
31-009-09235	4160'-4200'	38															
31-009-08610	2650'-2660'						5.77	4.02	12.8	0.29	432	222	5	0.24	0.49	48	
31-011-11632	300'-350'						3.54	0.6	0.61	0.34	361	17	10	0.5	2.05	11	
31-011-11632	420'-450'	68	12699-SD	2.5	3												
31-013-03200	1971'-1983'; 2431'-2465'						4.35	2.19	13.12	0.4	445	302	9	0.14	0.67	30	
31-013-03200	2600'-2637'	146	12700-SD	2	2												
31-013-04437	2340'-2410'																
31-015-00443	659'-706'	103															
31-015-00443	836'-869'	133	12701-SD	3	3												
31-015-00443	2928'-2984'						6.98	1.23	0.87	0.78	374	12	11	0.59	1.5	10	
31-017-01160	338'-353'	109	12702-SD	3	3												
31-017-01160	1342'-1414'						2.19	0.41	0.58	0.24	505	26	11	0.41	1.89	37	
31-023-04714	2470'-2510'						2.11	0.13	0.14	0.24	511	7	11	0.48	1.99	8	
31-023-04714	2880'-2910'	107	12703-SD	2.5	3												
31-029-11730	1300'-1310'						4.86	3.2	6.73	0.5	434	138	10	0.32	0.5	38	
31-037-10776	70'-100'	101	12704-SD	2	2												
31-037-10776	140'-170'	104	12705-SD	1	1												
31-037-10776	350'-380'						5.7	1.82	10.78	0.43	436	189	8	0.14	0.45	30	
31-051-04069	405'-420'						11.05	6.48	29.04	0.56	429	263	5	0.18	0.53	27	
31-051-04391	156'-175'	113	12706-SD	2	2												
31-051-04391	706'-735'						6.6	3.58	15.69	0.41	435	238	6	0.19	0.78	29	
31-051-04630	260'-280'	35	12707-SD	2	2												
31-051-04630	280'-300'	53															
31-051-04630	330'-370'	71	12708-SD	2	2												
31-051-04630	900'-940'						6.24	3.71	9.69	0.48	433	155	8	0.28	0.54	34	
31-053-04032	140'-157'	137	12709-SD	2.5	2.5												
31-053-04032	963'-993'						1.71	0.34	0.23	0.3	392	13	18	0.6	0.82	27	
31-067-11654	110'-160'	134	12710-SD	2.5	3												
31-067-11654	260'-270'	124															
31-067-12163	400'-430'						6.3	0.53	0.81	0.36	558	13	6	0.4			
31-067-12163	430'-460'	81	12711-SD	1.5	1.5												
31-069-06395	310'-370'	103															
31-069-06395	780'-820'						1.77	0.72	0.93	0.43	446	53	24	0.44	0.76	15	
31-097-19692	1240'-1270'	160	12712-SD	3	3												
31-097-19692	12909'-1320'	101	12713-SD	3.5	3.5												
31-097-19692	2290'-2310'						5.77	0.39	0.89	0.27	504	15	5	0.3	0.96	7	
31-099-04203	50'-80'						1.72	0.28	0.19	0.31	437	11	18	0.51	1	11	
31-101-03924	3170'-3190'	6															
31-101-03924	3190'-3220'	21															
31-101-04573	2082'-2101'	66															
31-101-04573	2319'-2344'	66	12714-SD	3	3												
31-101-04573	2344'-2389'	104															
31-101-21468	2380'-2410'	122															
31-101-21468	3110'-3140'						1.57	0.55	0.56	0.21	459	36	13	0.5	0.77	2	
31-101-21468	2410'-2430'	106	12715-SD	2	3												
31-109-10243	2850'-2930'						0.58	0.08	0.4	0.15	348	17	26	0.44	1.37	4	
31-109-10243	2980'-3020'	57															
31-109-10243	3240'-3290'	74	12716-SD	3.5	4												
31-109-13173	33'-34'	1007	12717-SD	2.5	3												
31-121-22042	430'-460'	106															
31-121-22042	560'-600'	92	12718-SD	2	2												
31-121-22042	810'-840'						7.07	2.84	14.97	0.39	437	212	6	0.16	0.54	25	
31-123-04796	137'-175'	73															
31-123-04796	243'-264'	87															
31-123-04796	271'-308'	121															
31-123-04796	1051'-1095'						6.22	0.31	0.69	0.25	535	11	4	0.31	1.74	33	