

Table 1. Thermal maturity (color alteration index and vitrinite reflectance) and RockEval/total organic carbon data from Ordovician and Devonian samples collected from the subsurface of Kentucky, New York, Ohio, Pennsylvania, Virginia, and West Virginia.

[TOC, total organic carbon; S₁, first hydrocarbon peak generated by RockEval pyrolysis of sample (mg HC/g sample); S₂, second hydrocarbon peak generated by RockEval pyrolysis of sample (mg HC/g sample); S₃, third peak generated by RockEval pyrolysis of sample (mg CO₂/g sample); T_{max} is in °C; HI, Hydrogen index (S₂ x 100 / TOC); OI, Oxygen index (S₃ x 100 / TOC); PI, production index (S₁/(S₁ + S₂)); %R_o, vitrinite reflectance; CAI, color alteration index; n/a, not applicable; nd, not determined; Sh, Shale; Ls, Limestone; Mbr, Member. The values listed for TOC, S₁, S₂, S₃, T_{max}, HI, OI, PI, %R_{o(mean)} corrected for suppression, and number of R_o readings were provided through a contract with Humble Geochemical Services, Humble, Tex.]

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
16-011-19166	Ky.	Bath	Sherburne	38.269687	-83.835597	No. 1 Sid Vice	Trenton Limestone	Upper Ordovician	Cuttings
16-013-00496	Ky.	Bell	Middlesboro North	36.680037	-83.668882	No. 1 Linnie B Hurst	Trenton Limestone	Upper Ordovician	Cuttings
16-017-00495	Ky.	Bourbon	North Middletown	38.142585	-84.107995	No. 1 Richard Boardman	Trenton Limestone	Upper Ordovician	Cuttings
16-019-20459	Ky.	Boyd	Rush	38.297171	-82.762096	No. 533 Inland Gas Co Inc	Trenton Limestone	Upper Ordovician	Cuttings
16-043-16235	Ky.	Carter	Grahn	38.293272	-83.111354	No. 11-1 Warnie Stapleton	Ohio Shale	Upper Devonian	Cuttings
16-043-16235	Ky.	Carter	Grahn	38.293272	-83.111354	No. 11-1 Warnie Stapleton	Onondaga Limestone	Middle Devonian	Cuttings
16-043-16235	Ky.	Carter	Grahn	38.293272	-83.111354	No. 11-1 Warnie Stapleton	Trenton Limestone	Upper Ordovician	Cuttings
16-043-22935	Ky.	Carter	Rush	38.290006	-82.800034	No. 538 Inland Gas Co Inc	Ohio Shale	Upper Devonian	Cuttings
16-043-26445	Ky.	Carter	Willard	38.177017	-82.95466	No. 1 W E Robinson	Ohio Shale	Upper Devonian	Cuttings
16-043-26445	Ky.	Carter	Willard	38.177017	-82.95466	No. 1 W E Robinson	Trenton Limestone	Upper Ordovician	Cuttings
16-045-22662	Ky.	Casey	Phil	37.127565	-84.885048	No. 2 Viola Huff	Ohio Shale	Upper Devonian	Cuttings
16-045-22662	Ky.	Casey	Phil	37.127565	-84.885048	No. 2 Viola Huff	Trenton Limestone	Upper Ordovician	Cuttings
16-045-22802	Ky.	Casey	Phil	37.126055	-84.888477	No. 3 Viola Huff	Ohio Shale	Upper Devonian	Cuttings
16-045-22802	Ky.	Casey	Phil	37.126055	-84.888477	No. 3 Viola Huff	Trenton Limestone	Upper Ordovician	Cuttings
16-045-23292	Ky.	Casey	Phil	37.129213	-84.886248	No. 4 Viola Huff	Ohio Shale	Upper Devonian	Cuttings
16-045-23292	Ky.	Casey	Phil	37.129213	-84.886248	No. 4 Viola Huff	Trenton Limestone	Upper Ordovician	Cuttings
16-045-23647	Ky.	Casey	Dunnville	37.212752	-85.032303	No. Ca34 R F Tarter	Trenton Limestone	Upper Ordovician	Core
16-045-34578	Ky.	Casey	Mintonville	37.222434	-84.806352	No. A1 Arthur Garrett	Ohio Shale	Upper Devonian	Cuttings
16-045-34578	Ky.	Casey	Mintonville	37.222434	-84.806352	No. A1 Arthur Garrett	Trenton Limestone	Upper Ordovician	Cuttings
16-045-37672	Ky.	Casey	Phil	37.162217	-84.965637	No. 1 J T Emerson	Ohio Shale	Upper Devonian	Cuttings
16-045-37672	Ky.	Casey	Phil	37.162217	-84.965637	No. 1 J T Emerson	Trenton Limestone	Upper Ordovician	Cuttings
16-045-80523	Ky.	Casey	Phil	37.165622	-84.959152	No. 1 Estil Moran	Trenton Limestone	Upper Ordovician	Cuttings
16-049-10164	Ky.	Clark	Hedges	37.877978	-84.077444	No. 1 Herbert Devary	Trenton Limestone	Upper Ordovician	Cuttings
16-049-10287	Ky.	Clark	Ford	37.946841	-84.301906	No. 1 P Adams & C Long	Trenton Limestone	Upper Ordovician	Cuttings

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American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _{o(mean)}	%R _{o(mean)} corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
16-011-19166	551-596													1	1	
16-013-00496	4,128-4,210													2	2	
16-017-00495	200-300													1	1	
16-019-20459	4,200-4,300													1	1+	
16-043-16235	1,220-1,260		6.76	2.5	27.7	0.51	429	409	8	0.1	0.59		35			
16-043-16235	1,900-1,950															
16-043-16235	2,800-2,860													1+	1.5	
16-043-22935	1,900-2,010		7.51	2.5	36.2	0.48	432	482	6	0.1	0.56		38			
16-043-26445	1,610-1,710		6.2	2.3	27.2	0.6	431	435	11	0.1	0.55		33			
16-043-26445	3,550-3,610													1	1+	
16-045-22662	239-280		7.57	2.4	32.8	0.55	431	433	7	0.1	0.42		33			
16-045-22662	895-985													1+	1+	Phosphate—fine-grained, irregularly shaped grains and steinkerns (bryozoan zooecia, sponge spicules, ostracodes); phosphatic fossils—brachiopods and indeterminate shelly fragments; pyrite—fine-grained and euhedral.
16-045-22802	236-265		15.6	5.2	64.6	1.84	435	414	12	0.1	0.38		26			
16-045-22802	900-966													1+	1.5	
16-045-23292	250-286		10	2.9	34.8	1	430	348	11	0.1	0.49		32			
16-045-23292	905-1,000													1+	1.5	Phosphate—fine-grained, irregularly shaped grains and steinkerns (bryozoan zooecia, snails, gastropods, bivalves, sponge spicules); phosphatic fossils—brachiopod fragments; pyrite—fine-grain, euhedral, and replaced fossil; fluorite(?)—clear.
16-045-23647	790-790													1	1	
16-045-34578	300-320		6.42	2.1	25.7	0.61	435	399	9	0.1	0.48		33			
16-045-34578	940-1,000													1	1+	
16-045-37672	225-275		7.11	2.4	33.8	0.59	432	475	8	0.1	0.51		35			
16-045-37672	800-900															
16-045-80523	850-900													1+	1.5	
16-049-10164	730-805													1+	1.5	
16-049-10287	80-152													1	1+	Phosphate—fine-grained, pellets, and steinkerns (echinoderms, snails, bryozoan zooecia, bivalves, ostracodes, sponge triaxons, miscellaneous rods and spines); phosphatic fossils—brachiopod and fish fragments; pyrite—fine-grained and euhedral (rare).

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n/a	Ky.	Clark	n/a	37.8861667	-84.0979444	J.K. Smith Power Plant	Boyle Limestone	Middle Devonian	Outcrop
16-051-61976	Ky.	Clay	Portersburg	37.155493	-83.886283	No. 1 Isham & Robert Hensley Et Ux	Ohio Shale	Upper Devonian	Cuttings
16-051-61976	Ky.	Clay	Portersburg	37.155493	-83.886283	No. 1 Isham & Robert Hensley Et Ux	Trenton Limestone	Upper Ordovician	Cuttings
16-051-70713	Ky.	Clay	Creeksville	37.025642	-83.546061	No. 1003 Fordson Coal Co	Trenton Limestone	Upper Ordovician	Cuttings
16-053-22080	Ky.	Clinton	Albany	36.732921	-85.228215	No. 3 Norman Pickens	Trenton Limestone	Upper Ordovician	Cuttings
16-053-41290	Ky.	Clinton	Albany	36.674082	-85.205795	No. 1 Clement Shelley	Trenton Limestone	Upper Ordovician	Cuttings
n/a	Ky.	Cumberland	Burkesville	36.7741667	-85.3333333	n/a (Pb/Zn Exploratory Drill Hole)	Upper Knox Group	Lower Ordovician	Core
16-063-23542	Ky.	Elliott	Willard	38.135379	-82.960878	No. 1 Cecil Ison	Ohio Shale	Upper Devonian	Cuttings
16-063-26619	Ky.	Elliott	Mazie	38.120524	-82.955943	No. 3 I R Ison (Stephens Unit)	Ohio Shale	Upper Devonian	Cuttings
16-063-26619	Ky.	Elliott	Mazie	38.120524	-82.955943	No. 3 I R Ison (Stephens Unit)	Onondaga Limestone	Middle Devonian	Cuttings
16-063-26619	Ky.	Elliott	Mazie	38.120524	-82.955943	No. 3 I R Ison (Stephens Unit)	Trenton Limestone	Upper Ordovician	Cuttings
16-063-27685	Ky.	Elliott	Willard	38.149189	-82.942942	No. 1 Dewey Johnson	Ohio Shale	Upper Devonian	Cuttings
16-063-27685	Ky.	Elliott	Willard	38.149189	-82.942942	No. 1 Dewey Johnson	Trenton Limestone	Upper Ordovician	Cuttings
16-063-29843	Ky.	Elliott	Isonville	38.122158	-83.078641	No. 1 Albert Gilliam Et Ux	Ohio Shale	Upper Devonian	Cuttings
16-063-29843	Ky.	Elliott	Isonville	38.122158	-83.078641	No. 1 Albert Gilliam Et Ux	Onondaga Limestone	Middle Devonian	Cuttings
16-063-29843	Ky.	Elliott	Isonville	38.122158	-83.078641	No. 1 Albert Gilliam Et Ux	Trenton Limestone	Upper Ordovician	Cuttings
16-065-24861	Ky.	Estill	Irvine	37.743466	-83.984301	No. 1 Charles Moore Et Al	Trenton Limestone	Upper Ordovician	Cuttings
16-065-44506	Ky.	Estill	Cobhill	37.726769	-83.752333	No. 65 Miller-Prewitt-Goff Heirs 'E'	Trenton Limestone	Upper Ordovician	Cuttings
16-065-72312	Ky.	Estill	Alcorn	37.616803	-84.096754	No. 1 Dallas Turner	Trenton Limestone	Upper Ordovician	Cuttings
16-069-00000	Ky.	Fleming	Hillsboro	38.28299	-83.64373	No. 2 John Riley	Trenton Limestone	Upper Ordovician	Cuttings
16-071-01232	Ky.	Floyd	Prestonsburg	37.627703	-82.869773	No. 1146 Wylie Slone	Onondaga Limestone	Middle Devonian	Cuttings
16-071-02265	Ky.	Floyd	Martin	37.606041	-82.860626	No. 1153 Josie Shephard	Onondaga Limestone	Middle Devonian	Cuttings
16-071-23631	Ky.	Floyd	Martin	37.528939	-82.809702	No. 7096 F T May	Onondaga Limestone	Middle Devonian	Cuttings
16-071-27524	Ky.	Floyd	Wayland	37.493161	-82.758132	No. 1 Milford Hall	Trenton Limestone	Upper Ordovician	Cuttings
16-079-21048	Ky.	Garrard	Bryantsville	37.717353	-84.632296	No. 1 Leonard Kirby	Trenton Limestone	Upper Ordovician	Cuttings
16-089-21256	Ky.	Greenup	Friendship	38.639428	-83.05147	No. 1 D P Newell	Trenton Limestone	Upper Ordovician	Cuttings
16-089-30078	Ky.	Greenup	Brushart	38.602127	-83.067104	No. 1 Willie Gilliam	Trenton Limestone	Upper Ordovician	Cuttings
16-109-72420	Ky.	Jackson	Tyner	37.328746	-83.900343	No. 1 Charlie Chappell	Ohio Shale	Upper Devonian	Cuttings
16-109-72420	Ky.	Jackson	Tyner	37.328746	-83.900343	No. 1 Charlie Chappell	Trenton Limestone	Upper Ordovician	Cuttings
16-113-13950	Ky.	Jessamine	Little Hickman	37.829543	-84.51812	No. 1 Arch Hager	Trenton Limestone	Upper Ordovician	Cuttings
16-113-20747	Ky.	Jessamine	Little Hickman	37.818973	-84.508965	No. 1 Park Wolfinbarger	Trenton Limestone	Upper Ordovician	Cuttings
16-115-00500	Ky.	Johnson	Offutt	37.863096	-82.726926	No. 576 Julia Ward	Onondaga Limestone	Middle Devonian	Cuttings
16-115-33985	Ky.	Johnson	Redbush	37.95722	-82.93583	No. Rs-3 Skaggs-Kelly	Ohio Shale	Upper Devonian	Core
16-115-33985	Ky.	Johnson	Redbush	37.95722	-82.93583	No. Rs-3 Skaggs-Kelly	Ohio Shale	Upper Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
n/a	n/a													1	1+	20-in dolostone bed sample from J.K. Smith powerplant site; conodonts extracted and loaned courtesy of C.E. Mason and D.M. Work.
16-051-61976	1,445-1,455		7.11	1.1	21.5	0.59	437	302	8	0.1	0.53		26			
16-051-61976	2,525-2,595													1.5	1.5	
16-051-70713	4,000-4,100													1.5	1.5	
16-053-22080	734-745													1+	1.5	
16-053-41290	690-750													1.5	1.5	
n/a	not known													1	1.5	Pyrite—fine-grained.
16-063-23542	1,470-1,570		6.2	2.2	22.9	0.59	428	366	9	0.1	0.56		31			
16-063-26619	1,520-1,570		9.05	3.4	37.4	1.1	434	413	13	0.1	0.58		34			
16-063-26619	1,750-1,790													1	1+	
16-063-26619	3,150-3,200													1+	1.5	
16-063-27685	1,660-1,700		8.05	2.4	33.3	1.3	432	414	16	0.1	0.58		25			
16-063-27685	3,720-3,810													1+	1+	
16-063-29843	1,250-1,290		5.61	1.4	24.5	0.92	431	435	16	0.1	0.59		34			
16-063-29843	1,350-1,380													1+	1+	
16-063-29843	2,700-2,800													1+	1+	
16-065-24861	1,340-1,440													1+	1.5	
16-065-44506	1,920-1,990													1	1+	
16-065-72312	995-1065													1	1+	Phosphate—fine-grained, irregularly shaped grains (some rounded) and steinkerns (snails, spines, bryozoan zoecia, echinoderm fragments, bivalves, ostracodes); pyrite—fine-grained and euhedral (uncommon).
16-069-00000	1,015-1,070													1	1	
16-071-01232	2,254-2,289													1.5	1.5	
16-071-02265	2,165-2,203													1+	1+	
16-071-23631	2,552-2,597													1.5	1.5	
16-071-27524	4,420-4,510													1.5	1.5	
16-079-21048	310-410													1	1	
16-089-21256	2,770-2,870													1	1	Phosphate—fine-grained, irregularly shaped grains and steinkerns (echinoderm fragments, bryozoan zoecia, rods and spines, ostracodes, bivalves, sponge spicules, snails); phosphatic fossils—brachiopod and fish(?) fragments; pyrite—fine-grained and euhedral.
16-089-30078	2,810-2,860													1+	1+	
16-109-72420	1,230-1,270		6.6	3.4	26.6	0.5	436	401	9	0.1	0.55		41			
16-109-72420	2,140-2,240													1.5	1.5	
16-113-13950	50-120													1	1	
16-113-20747	250-350													1	1	
16-115-00500	2,112-2,260													1+	1+	
16-115-33985	1,424-1,424		0.29								0.69					Streib (1981).
16-115-33985	1,441-1,441		0.23								0.71					Streib (1981).

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16-115-33985	Ky.	Johnson	Redbush	37.95722	-82.93583	No. Rs-3 Skaggs-Kelly	Ohio Shale	Upper Devonian	Core
16-115-33985	Ky.	Johnson	Redbush	37.95722	-82.93583	No. Rs-3 Skaggs-Kelly	Ohio Shale	Upper Devonian	Core
16-115-33985	Ky.	Johnson	Redbush	37.95722	-82.93583	No. Rs-3 Skaggs-Kelly	Ohio Shale	Upper Devonian	Core
16-115-26604	Ky.	Johnson	Redbush	37.972708	-82.919719	No. 9784T J H Evans	Ohio Shale	Upper Devonian	Cuttings
16-115-26604	Ky.	Johnson	Redbush	37.972708	-82.919719	No. 9784T J H Evans	Onondaga Limestone	Middle Devonian	Cuttings
16-115-26604	Ky.	Johnson	Redbush	37.972708	-82.919719	No. 9784T J H Evans	Trenton Limestone	Upper Ordovician	Cuttings
16-115-31305	Ky.	Johnson	Redbush	37.948352	-82.953917	No. 1R Ernest Wright Et Al	Onondaga Limestone	Middle Devonian	Core
16-115-31305	Ky.	Johnson	Redbush	37.948352	-82.953917	No. 1R Ernest Wright Et Al	Onondaga Limestone	Middle Devonian	Core
16-115-33174	Ky.	Johnson	Oil Springs	37.857689	-82.989566	No. 20537T Ashland Exploration Inc	Ohio Shale	Upper Devonian	Cuttings
16-115-33174	Ky.	Johnson	Oil Springs	37.857689	-82.989566	No. 20537T Ashland Exploration Inc	Onondaga Limestone	Middle Devonian	Cuttings
16-115-33174	Ky.	Johnson	Oil Springs	37.857689	-82.989566	No. 20537T Ashland Exploration Inc	Trenton Limestone	Upper Ordovician	Cuttings
16-115-51624	Ky.	Johnson	Oil Springs	37.850549	-82.990909	No. 308 Donald Slone	Trenton Limestone	Upper Ordovician	Cuttings
16-115-60712	Ky.	Johnson	Oil Springs	37.860487	-82.995463	No. 1 Joy Mccarty Et Al	Onondaga Limestone	Middle Devonian	Cuttings
16-115-60712	Ky.	Johnson	Oil Springs	37.860487	-82.995463	No. 1 Joy Mccarty Et Al	Trenton Limestone	Upper Ordovician	Cuttings
16-115-63403	Ky.	Johnson	Oil Springs	37.859252	-82.984129	No. 4 John F Conley	Ohio Shale	Upper Devonian	Cuttings
16-115-63403	Ky.	Johnson	Oil Springs	37.859252	-82.984129	No. 4 John F Conley	Onondaga Limestone	Middle Devonian	Cuttings
16-115-63403	Ky.	Johnson	Oil Springs	37.859252	-82.984129	No. 4 John F Conley	Trenton Limestone	Upper Ordovician	Cuttings
16-115-67526	Ky.	Johnson	Oil Springs	37.853185	-82.967636	No. 1 A J Tackett	Trenton Limestone	Upper Ordovician	Cuttings
16-115-67549	Ky.	Johnson	Salyersville North	37.861188	-83.002701	No. 1 E Williams	Ohio Shale	Upper Devonian	Cuttings
16-115-67549	Ky.	Johnson	Salyersville North	37.861188	-83.002701	No. 1 E Williams	Onondaga Limestone	Middle Devonian	Cuttings
16-115-67549	Ky.	Johnson	Salyersville North	37.861188	-83.002701	No. 1 E Williams	Trenton Limestone	Upper Ordovician	Cuttings
16-125-14731	Ky.	Laurel	Portersburg	37.163233	-83.984705	No. 1 Clyde & Pleasie Johnson	Trenton Limestone	Upper Ordovician	Cuttings
16-125-14740	Ky.	Laurel	Lily	37.11749	-84.0036	No. 1 Farce & Bryan Crook	Trenton Limestone	Upper Ordovician	Cuttings
16-127-78437	Ky.	Lawrence	Fallsburg	38.186559	-82.697738	No. 1 Benny & Rose Stuart	Ohio Shale	Upper Devonian	Cuttings
16-127-78437	Ky.	Lawrence	Fallsburg	38.186559	-82.697738	No. 1 Benny & Rose Stuart	Onondaga Limestone	Middle Devonian	Cuttings
16-137-00000	Ky.	Lincoln	Hustonville	37.461091	-84.788327	No. 1 A R Spears	Trenton Limestone	Upper Ordovician	Cuttings
16-137-00501	Ky.	Lincoln	Stanford	37.58402	-84.710629	No. Ch-4 F A Feldman	Trenton Limestone	Upper Ordovician	Core
16-147-33063	Ky.	McCreary	Wiborg	36.773368	-84.458883	No. 2 Duane Owens Et Al	Trenton Limestone	Upper Ordovician	Cuttings
16-147-39962	Ky.	McCreary	Wiborg	36.789513	-84.456829	No. 3 Duane Owens	Trenton Limestone	Upper Ordovician	Cuttings

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16-115-33985	1,451-1,451		2.71								0.62					Streib (1981).
16-115-33985	1,471-1,471		3.58								0.6					Streib (1981).
16-115-33985	1,481-1,481		0.18								0.61					Streib (1981).
16-115-26604	1,470-1,520		1.6	0.6	4.84	0.24	436	303	15	0.1	0.58		24			
16-115-26604	1,640-1,680													n/a	n/a	No conodonts.
16-115-26604	3,520-3,620													1	1+	
16-115-31305	1,652-1,652													1	1+	
16-115-31305	1,684-1,684													n/a	n/a	No conodonts.
16-115-33174	1,250-1,270		0.14	0.1	0.14	0.22	426	100	157	0.3	0.67		16			
16-115-33174	1,270-1,360													n/a	n/a	No conodonts.
16-115-33174	3,230-3,310													1	1.5	Pyrite—fine-grained clumps, replaced fossils, and euhedral; phosphatized steinkerns (snails, echinoderms, bryozoan zooecia, bivalves, miscellaneous spines, sclerites); phosphatic fossils—brachiopod and fish fragments; sphalerite (rare); chitinozoa; biotite (minor).
16-115-51624	2,615-2,715													1+	1+	
16-115-60712	1,430-1,550													n/a	n/a	No conodonts.
16-115-60712	2,830-2,910													1+	1.5	
16-115-63403	1,290-1,360		6.43	2	27.1	0.84	433	421	13	0.1	0.45		32			
16-115-63403	1,520-1,640													n/a	n/a	
16-115-63403	3,100-3,200													1	1+	Pyrite—fine-grained crusts and grains and (or) clusters; replaced fossils—spines and rods; light-green to clear unknown mineral; phosphate—replaced fossils and steinkerns (bryozoan zooecia (abundant), ostracodes, bivalves, snails, echinoderm fragments, miscellaneous spines and rods).
16-115-67526	3,220-3,310													1+	1+	
16-115-67549	1,060-1,140		7.49	3	31.1	0.53	434	415	7	0.1	0.44		28			
16-115-67549	1,240-1,290													1+	1+	
16-115-67549	3,080-3,130													1+	1+	
16-125-14731	2,430-2,530													1.5	1.5	
16-125-14740	2,350-2,440													1.5	1.5	
16-127-78437	2,300-2,400		4.85	1.5	20	0.48	435	412	10	0.1	0.31		14			
16-127-78437	2,520-2,660													1+	1.5	
16-137-00000	450-520													1+	1+	
16-137-00501	350-350													1+	1+	
16-147-33063	2,015-2,060													1.5	1.5	
16-147-39962	2,055-2,075													1+	1.5	Phosphate—fine-grained, irregularly shaped grains and steinkerns (bryozoan zooecia, snails, echinoderm fragments, miscellaneous spines and rods); phosphatic shelly fragments—brachiopods and fish; pyrite—fine-grained.

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
16-151-00497	Ky.	Madison	Palmer	37.788413	-84.110265	No. 1 George Ginter	Trenton Limestone	Upper Ordovician	Cuttings
16-153-02074	Ky.	Magoffin	Ivyton	37.654943	-82.97461	No. 6619 Howard Lark	Onondaga Limestone	Middle Devonian	Cuttings
16-159-31020	Ky.	Martin	Kermit	37.775	-82.48667	No. 20336 Columbia Gas	Ohio Shale	Upper Devonian	Core
16-161-03990	Ky.	Mason	Orangeburg	38.547391	-83.666404	No. 9061T Wilson Rawlings	Trenton Limestone	Upper Ordovician	Cuttings
16-165-18101	Ky.	Menifee	Salt Lick	38.009526	-83.513023	No. 9380 Frank Brown Et Al	Ohio Shale	Upper Devonian	Cuttings
16-173-23784	Ky.	Montgomery	Levee	37.972625	-83.953902	No. Ca35 Burchell E Martin	Trenton Limestone	Upper Ordovician	Core
16-173-71193	Ky.	Montgomery	Levee	37.964703	-83.908551	No. 3 Russell Trimble	Trenton Limestone	Upper Ordovician	Cuttings
16-175-26795	Ky.	Morgan	West Liberty	37.936216	-83.339833	No. 1 Anna Vance	Ohio Shale	Upper Devonian	Cuttings
16-175-26795	Ky.	Morgan	West Liberty	37.936216	-83.339833	No. 1 Anna Vance	Trenton Limestone	Upper Ordovician	Cuttings
16-175-27544	Ky.	Morgan	Ezel	37.922186	-83.459006	No. 1 Burchell Blanton	Trenton Limestone	Upper Ordovician	Cuttings
16-175-28019	Ky.	Morgan	Cannel City	37.864277	-83.369714	No. 1 C K Stacy Heirs	Ohio Shale	Upper Devonian	Cuttings
16-175-28019	Ky.	Morgan	Cannel City	37.864277	-83.369714	No. 1 C K Stacy Heirs	Trenton Limestone	Upper Ordovician	Cuttings
16-175-51605	Ky.	Morgan	Dingus	37.969083	-83.043444	No. 1 Lena Brown	Ohio Shale	Upper Devonian	Cuttings
16-175-51605	Ky.	Morgan	Dingus	37.969083	-83.043444	No. 1 Lena Brown	Trenton Limestone	Upper Ordovician	Cuttings
16-181-00498	Ky.	Nicholas	Moorefield	38.358566	-83.945292	No. 1 Adrian Cox	Trenton Limestone	Upper Ordovician	Core
16-193-35046	Ky.	Perry	Hazard North	37.353844	-83.198193	No. 7324 Nicholas Combs Tr No 6-382	Ohio Shale	Upper Devonian	Core
16-193-44492	Ky.	Perry	Krypton	37.365768	-83.32418	No. 1 Dorse Duff	Trenton Limestone	Upper Ordovician	Core
16-195-00499	Ky.	Pike	Belfry	37.608977	-82.284972	No. 847 Tierney Land Co	Onondaga Limestone	Middle Devonian	Cuttings
16-195-24577	Ky.	Pike	Millard	37.482015	-82.463083	No. 1 Henry D Stratton	Ohio Shale	Upper Devonian	Cuttings
16-195-24577	Ky.	Pike	Millard	37.482015	-82.463083	No. 1 Henry D Stratton	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
16-195-82020	Ky.	Pike	Belfry	37.52161	-82.277058	No. 69 Ford Motor Co	Ohio Shale	Upper Devonian	Core
16-195-82832	Ky.	Pike	Belfry	37.531754	-82.284746	No. 78 Ford Motor Co	Ohio Shale	Upper Devonian	Core
16-197-00000	Ky.	Powell	Clay City	37.807631	-83.954499	No. 1 James Hall	Trenton Limestone	Upper Ordovician	Cuttings
16-197-17445	Ky.	Powell	Stanton	37.775729	-83.839905	No. 1 Earnest Tipton	Trenton Limestone	Upper Ordovician	Cuttings
16-199-77297	Ky.	Pulaski	Science Hill	37.127016	-84.689334	No. 1 Jum Wesley Estate	Boyle Limestone	Middle Devonian	Cuttings
16-199-77368	Ky.	Pulaski	Faubush	37.052416	-84.768756	No. 1 Lindell Simpson	Trenton Limestone	Upper Ordovician	Cuttings
16-199-77776	Ky.	Pulaski	Delmer	37.102389	-84.722221	No. 1 Bill Burton	Trenton Limestone	Upper Ordovician	Cuttings
16-205-18028	Ky.	Rowan	Haldeman	38.171472	-83.327803	No. 1 Fannie May	Trenton Limestone	Upper Ordovician	Cuttings
16-205-25356	Ky.	Rowan	Wrigley	38.097597	-83.347394	No. 1 Ralph M Perkins	Ohio Shale	Upper Devonian	Cuttings
16-231-29353	Ky.	Wayne	Parnell	36.846154	-84.904305	No. Ca303 John Savage	Trenton Limestone	Upper Ordovician	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _{o(mean)}	%R _{o(mean)} corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
16-151-00497	685-730													1+	1+	Pyrite—irregularly shaped, fine-grained grains and coarsely replaced fossils; phosphatic grains—fine-grained and steinkerns (bryozoan zooecial fillings, snails, indeterminate spines and rods, echinoderm fragments, bivalves); phosphatic fossils—brachiopod, fish, and miscellaneous shell fragments.
16-153-02074	2,140-2,194													1	1+	
16-159-31020	3,386-3,386		2.63								0.53					Streib (1981).
16-161-03990	740-820													1	1	
16-165-18101	730-800		4.91	1	16.3	0.71	428	331	14	0.1	0.54		32			
16-173-23784	648-648													1+	1+	
16-173-71193	1,150-1,200													1	1+	
16-175-26795	1,110-1,180		5.33	1	18.3	0.87	431	344	16	0.1	0.59		31			
16-175-26795	2,560-2,660													1	1+	
16-175-27544	2,260-2,360													1	1+	
16-175-28019	1,200-1,290		6.67	1.7	20.1	0.84	429	302	13	0.1	0.61		34			
16-175-28019	2,710-2,780													1	1+	
16-175-51605	1,380-1,460		6.76	2.8	30.7	0.85	434	454	13	0.1	0.58		35			
16-175-51605	3,300-3,390													1+	1+	
16-181-00498	287-287													1	1	Phosphate—fine-grained, irregularly shaped grains and steinkerns (bryozoan zooecia, snails, echinoderm fragments, ostracodes, bivalves, sponge spicules (triaxons); pyrite—fine-grained and euhedral; scolecodonts.
16-193-35046	2,685.3-2,685.3		0.23	0.1	0.33	0.2	441	143	87	0.2	0.58		32			
16-193-44492	4,000-4,000															
16-195-00499	4,082-4,107													n/a	n/a	No conodonts.
16-195-24577	4,000-4,050		4.86	1.8	5.57	0.34	447	115	7	0.3	0.65		29			
16-195-24577	4,070-4,150													3	3	CAI determined on "conodont pearls."
16-195-82020	4,387.5-4,387.5		6.01	1.8	3.72	0.25	463	62	4	0.3	0.75		26			
16-195-82832	4,333-4,333		5.29	1.8	3.67	0.21	462	69	4	0.3	0.72		36			
16-197-00000	944-988													1	1+	Pyrite—fine-grained, euhedral, and replaced fossils (spines, bivalves, and indeterminate fossils); phosphate—irregularly shaped grains and steinkerns (ostracodes, bryozoan zooecial fillings, snails, echinoderm fragments, bivalves); miscellaneous phosphatic shelly fragments; chitinozoa (rare).
16-197-17445	1,330-1,375													1+	1+	
16-199-77297	295-310													1	1+	
16-199-77368	970-1,000													1+	1.5	
16-199-77776	960-1,000													1+	1.5	
16-205-18028	2,195-2,280													1	1	
16-205-25356	1,070-1,170		6.59	1.3	22	1.22	428	334	19	0.1	0.59		44			
16-231-29353	849-855													1+	1.5	

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
16-231-39816	Ky.	Wayne	Parnell	36.874818	-84.973161	No. 1 Faye S Hopper	Trenton Limestone	Upper Ordovician	Cuttings
16-237-14190	Ky.	Wolfe	Hazel Green	37.753982	-83.458715	No. 1 H C Chambers	Ohio Shale	Upper Devonian	Cuttings
16-237-14190	Ky.	Wolfe	Hazel Green	37.753982	-83.458715	No. 1 H C Chambers	Trenton Limestone	Upper Ordovician	Cuttings
16-237-30520	Ky.	Wolfe	Lee City	37.708513	-83.367876	No. 1 Orville Banks	Trenton Limestone	Upper Ordovician	Cuttings
31-003-00354	N.Y.	Allegany	Hume	42.46947	-78.15479	M. Connor No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-003-02681	N.Y.	Allegany	Hume	42.4692	-78.18133	Thomas No. 1	Penn Yan Shale	Upper Devonian	Cuttings
31-003-02681	N.Y.	Allegany	Hume	42.4692	-78.18133	Thomas No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-003-02681	N.Y.	Allegany	Hume	42.4692	-78.18133	Thomas No. 1	Geneseo Formation	Upper Devonian	Cuttings
31-003-04248	N.Y.	Allegany	Hume	42.47043	-78.16017	Wolfer No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-003-13549	N.Y.	Allegany	Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Genundewa Limestone	Upper Devonian	Core
31-003-13549	N.Y.	Allegany	Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Lodi Limestone	Upper Devonian	Core
31-003-13549	N.Y.	Allegany	Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Genundewa Limestone	Upper Devonian	Core
31-003-13549	N.Y.	Allegany	Almond	42.34889	-77.82	National Fuel & NYS Natural Gas No. 3	Lodi Limestone	Upper Devonian	Core
31-007-05087	N.Y.	Broome	Triangle	42.32346	-75.94786	Richards No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-007-05087	N.Y.	Broome	Triangle	42.32346	-75.94786	Richards No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-007-06636	N.Y.	Broome	Triangle	42.40618	-75.8774	C. Smith No. 1	Helderberg Group	Lower Devonian	Cuttings
31-009-03868	N.Y.	Cattaraugus	Perrysburg	42.45509	-79.03989	Ellis No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-009-03934	N.Y.	Cattaraugus	Perrysburg	42.45998	-79.04021	Conger No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-009-08610	N.Y.	Cattaraugus	Otto	42.37142	-78.84315	Manning No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-009-09235	N.Y.	Cattaraugus	Allegany	42.00866	-78.56875	E.T.S. No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-011-00478	N.Y.	Cayuga	Ledyard	42.68477	-76.64431	Mahaney No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-011-04715	N.Y.	Cayuga	Aurelius	42.92171	-75.94786	Alnutt No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-011-11632	N.Y.	Cayuga	Owasco	42.91694	-76.50542	Steimle No. 9	Marcellus Shale	Middle Devonian	Cuttings
31-011-11632	N.Y.	Cayuga	Owasco	42.91694	-76.50542	Steimle No. 9	Helderberg Group	Lower Devonian	Cuttings
31-011-17508	N.Y.	Cayuga	Cato	43.12899	-76.56174	Hunter No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-013-03200	N.Y.	Chautauqua	Harmony	42.06821	-79.41556	Morse No. 1	Pipe Creek Sh-Rhinestreet Sh	Upper Devonian	Cuttings
31-013-03200	N.Y.	Chautauqua	Harmony	42.06821	-79.41556	Morse No. 1	Moscow Sh-Ludlowville Sh	Middle Devonian	Cuttings
31-013-04437	N.Y.	Chautauqua	Ellery	42.18421	-79.33785	Harrington No. 1	Genesee Group	Upper Devonian	Cuttings
31-013-04460	N.Y.	Chautauqua	Sheridan	42.52111	-79.26226	Sommers-Tuttle No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-013-3200	N.Y.	Chautauqua	Harmony	42.06821	-79.41556	Morse No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-015-00443	N.Y.	Chemung	Van Etten	42.19857	-76.53807	Kesselring No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-015-00443	N.Y.	Chemung	Van Etten	42.19857	-76.53807	Kesselring No. 1	Genesee Formation	Middle Devonian	Cuttings
31-015-00443	N.Y.	Chemung	Van Etten	42.19857	-76.53807	Kesselring No. 1	Genesee Formation	Middle Devonian	Cuttings
31-015-00443	N.Y.	Chemung	Van Etten	42.19857	-76.53807	Kesselring No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-015-10335	N.Y.	Chemung	Erin	42.16901	-76.65898	Matejika No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-017-01160	N.Y.	Chenango	Columbus	42.69328	-75.34506	Lobdell No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-017-01160	N.Y.	Chenango	Columbus	42.69328	-75.34506	Lobdell No. 1	Skaneateles Shale	Middle Devonian	Cuttings
31-017-01160	N.Y.	Chenango	Columbus	42.69328	-75.34506	Lobdell No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-023-04714	N.Y.	Cortland	Freetown	42.51847	-76.00093	Clough No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-023-04714	N.Y.	Cortland	Freetown	42.51847	-76.00093	Clough No. 1	Marcellus Shale	Middle Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
16-231-39816	705-755													1.5	1.5	
16-237-14190	1,240-1,320		4.5	1.7	12.1	0.51	433	269	11	0.1	0.52		31			
16-237-14190	2,780-2,880													1+	1.5	
16-237-30520	3,120-3,200													1+	1.5	
31-003-00354	1,882-1,900	18												2	2	
31-003-02681	1,889-1,936	122												1.5	1.5	
31-003-02681	1936-1945	28												2	2	
31-003-02681	1,945-1,958	39												2	2	
31-003-04248	5,930-6,040	151												2.5	2.5	
31-003-13549	2,730.7-2,731.5	280												2	2.5	
31-003-13549	2,731.9		2.95	1.5	2.78	0.18	451	94	6	0.3	1.05		23			
31-003-13549	2,732-2,732.3	210												2	2.5	
31-003-13549	2,867.8-2,868.8	2,700												2	2.5	
31-007-05087	7,815-7,850	167												4	4	
31-007-05087	2,530-2,650		0.26	0.1	0.06	0.72	387	23	277	0.6	2.12		19			
31-007-06636	3,235-3,460	71												3	3	
31-009-03868	4,996-5,061	119												2.5	2.5	
31-009-03934	4,837-4,932	114												2.5	2.5	
31-009-08610	2,650-2,660		5.77	4	12.8	0.29	432	222	5	0.2	0.49		48			
31-009-09235	4,160-4,200	38														
31-011-00478	5,344-5,603	107												4.5	4.5	
31-011-04715	3,749-3,877	149												4.5	4.5	
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												2.5	3	
31-011-17508	2,850-2,860	126												3.5	3.5	
31-013-03200	1,971-1,983, 2,431-2,465		4.35	2.2	13.1	0.4	445	301	9	0.1	0.67		30			
31-013-03200	2,600-2,637	146												2	2	
31-013-04437	2,340-2,410															
31-013-04460	3,760-3,800	170												2	2	
31-013-3200	6,501-6,433	146												2.5	2.5	
31-015-00443	9,091-9,230	133												4.5	4.5	
31-015-00443	659-706	103														
31-015-00443	836-869	133												3	3	
31-015-00443	2,928-2,984		6.98	1.2	0.87	0.78	374	12	11	0.6	1.5		10			
31-015-10335	9,595-9,650	116												4.5	5	
31-017-01160	4,417-4,511	107												4.5	4.5	
31-017-01160	338-353	109												3	3	
31-017-01160	1,342-1,414		2.19	0.4	0.58	0.24	505	26	11	0.4	1.89		37			
31-023-04714	6,920-6,958	217												4.5	4.5	
31-023-04714	2,470-2,510		2.11	0.1	0.14	0.24	511	7	11	0.5	1.99		8			

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
31-023-04714	N.Y.	Cortland	Freetown	42.51847	-76.00093	Clough No. 1	Helderberg Group	Lower Devonian	Cuttings
31-023-21500	N.Y.	Cortland	Taylor	42.63903	-75.91361	NYSRT No. 6#1	Trenton Limestone	Upper Ordovician	Cuttings
31-029-03917	N.Y.	Erie	Tonawanda	43.00044	-78.82458	Fee No. 2	Trenton Limestone	Upper Ordovician	Cuttings
31-029-11002	N.Y.	Erie	Sardinia	42.55748	-78.53568	Brown No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-029-11730	N.Y.	Erie	Wales	42.71383	-78.51733	Foss No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-037-10776	N.Y.	Genesee	Alexander	42.92045	-78.16734	Danby Belt No. 1	Ludlowville Shale	Middle Devonian	Cuttings
31-037-10776	N.Y.	Genesee	Alexander	42.92045	-78.16734	Danby Belt No. 1	Centerfield Ls Mbr of Ludlowville Sh	Middle Devonian	Cuttings
31-037-10776	N.Y.	Genesee	Alexander	42.92045	-78.16734	Danby Belt No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-037-13672	N.Y.	Genesee	Leroy	42.99354	-77.95185	Fee No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-037-9524	N.Y.	Genesee	Alexander	42.90003	-78.24422	Buckenmeyer No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-051-04069	N.Y.	Livingston	York	42.87157	-77.93213	MacDonald No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-051-04069	N.Y.	Livingston	York	42.87157	-77.93213	McDonald No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-051-04391	N.Y.	Livingston	York	42.82758	-77.9356	J. Parnell	Genesee Formation	Middle Devonian	Cuttings
31-051-04391	N.Y.	Livingston	York	42.82758	-77.9356	J. Parnell	Marcellus Shale	Middle Devonian	Cuttings
31-051-04630	N.Y.	Livingston	Sparta	42.65023	-77.75596	Kennedy No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-051-04630	N.Y.	Livingston	Sparta	42.65023	-77.75596	Kennedy No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-051-04630	N.Y.	Livingston	Sparta	42.65023	-77.75596	Kennedy No. 1	Genesee Shale	Upper Devonian	Cuttings
31-051-04630	N.Y.	Livingston	Sparta	42.65023	-77.75596	Kennedy No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-051-13700	N.Y.	Livingston	Mount Morris	42.69719	-77.89195	Hills No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-053-03970	N.Y.	Madison	Lebanon	42.8048	-75.65048	Branagan No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-053-04032	N.Y.	Madison	Brookfield	42.7963	-75.40464	Danisevich No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-053-04032	N.Y.	Madison	Brookfield	42.7963	-75.40464	Danisevich No. 1	Skaneateles Shale	Middle Devonian	Cuttings
31-053-04032	N.Y.	Madison	Brookfield	42.7963	-75.40464	Danisevich No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-055-00672	N.Y.	Monroe	Brighton	43.17023	-77.61864	Rochester Deep Well	Trenton Limestone	Upper Ordovician	Cuttings
31-055-10921	N.Y.	Monroe	Hamlin	43.33336	-77.9529	Kerberle No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-063-06667	N.Y.	Niagara	Royalton	43.2075	-78.465	FMC Fee No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-063-06669	N.Y.	Niagara	Niagara	43.07993	-79.00674	Hooker Fee No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-067-00886	N.Y.	Onondaga	Camillus	43.01886	-76.30389	Munroe No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-067-11654	N.Y.	Onondaga	Otisco	42.89831	-76.23852	Sears No. 1	Moscow Shale	Middle Devonian	Cuttings
31-067-11654	N.Y.	Onondaga	Otisco	42.89831	-76.23852	Sears No. 1	Skaneateles Shale	Middle Devonian	Cuttings
31-067-12163	N.Y.	Onondaga	Marcellus	42.93688	-76.34586	Harrison No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-067-12163	N.Y.	Onondaga	Marcellus	42.93688	-76.34586	Harrison No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-067-12163	N.Y.	Onondaga	Marcellus	42.93688	-76.34586	Harrison No. 1	Cherry Valley Limestone	Middle Devonian	Cuttings
31-069-04760	N.Y.	Ontario	Farmington	42.98944	-77.27984	Wyman No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-069-06395	N.Y.	Ontario	Gorham	42.81262	-77.20285	Frankish No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-069-06395	N.Y.	Ontario	Gorham	42.81262	-77.20285	Frankish No. 1	Tichenor Limestone	Middle Devonian	Cuttings
31-069-06395	N.Y.	Ontario	Gorham	42.81262	-77.20285	Frankish No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-073-04611	N.Y.	Orleans	Barre	43.19091	-78.25826	Kelley No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-073-04873	N.Y.	Orleans	Carlton	43.36272	-78.30504	Green No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-097-19692	N.Y.	Schulyer	Reading	42.43251	-76.97039	L. Perigo No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-097-19692	N.Y.	Schulyer	Reading	42.43251	-76.97039	L. Perigo No. 1	Genesee Shale	Upper Devonian	Cuttings
31-097-19692	N.Y.	Schulyer	Reading	42.43251	-76.97039	L. Perigo No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-097-19692	N.Y.	Schulyer	Reading	42.43251	-76.97039	Perigo No. 21578	Trenton Limestone	Upper Ordovician	Cuttings
31-099-04203	N.Y.	Seneca	Fayette	42.8762	-76.85854	Schafer No. 2	Trenton Limestone	Upper Ordovician	Cuttings
31-099-10893	N.Y.	Seneca	Waterloo	42.94114	-76.87669	Kinney No. 1	Trenton Limestone	Upper Ordovician	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
31-023-04714	2,880-2,910	107												2.5	3	
31-023-21500	6,290-6,450	26												4	4.5	
31-029-03917	2,492-2,572	204												2	2	
31-029-11002	5,340-5,450	115												2.5	2.5	
31-029-11730	1,300-1,310		4.86	3.2	6.73	0.5	434	138	10	0.3	0.5		38			
31-037-10776	70-100	101												2	2	
31-037-10776	140-170	104												1	1	
31-037-10776	350-380		5.7	1.8	10.8	0.43	436	189	8	0.1	0.45		30			
31-037-13672	3,230-3,300	138												2.5	2.5	
31-037-9524	3,385-3,500	31												2.5	2.5	
31-051-04069	4,031-4,117	140												2.5	2.5	
31-051-04069	405-420		11.1	6.5	29	0.56	429	263	5	0.2	0.53		27			
31-051-04391	156-175	113												2	2	
31-051-04391	706-735		6.6	3.6	15.7	0.41	435	238	6	0.2	0.78		29			
31-051-04630	260-280	35												2	2	
31-051-04630	280-300	53														
31-051-04630	330-370	71												2	2	
31-051-04630	900-940		6.24	3.7	9.69	0.48	433	155	8	0.3	0.54		34			
31-051-13700	4,710-4,970	156												2.5	2.5	
31-053-03970	4,568-4,695	105												4.5	4.5	
31-053-04032	4,042-4,100	120												4	4	
31-053-04032	140-157	137												2.5	2.5	
31-053-04032	963-993		1.71	0.3	0.23	0.3	392	13	18	0.6	0.82		27			
31-055-00672	2,200-2,610	121												2.5	2.5	
31-055-10921	1,240-1,300	196												2	2	
31-063-06667	2,020-2,230	121												2	2	
31-063-06669	2,400-2,470	129												2	2	
31-067-00886	3,376-3,451	100												4	4	
31-067-11654	110-160	134												2.5	3	
31-067-11654	260-270	124														
31-067-12163	4,120-4,180	151												4.5	4.5	
31-067-12163	400-430		6.3	0.5	0.81	0.36	558	13	6	0.4						
31-067-12163	430-460	81												1.5	1.5	
31-069-04760	2,970-3,640	44												2	2	
31-069-06395	4,350-5,010	77												3.5	3.5	
31-069-06395	310-370	103														
31-069-06395	780-820		1.77	0.7	0.93	0.43	446	53	24	0.4	0.76		15			
31-073-04611	2,321-2,406	174												2	2	
31-073-04873	1,420-1,570	164												2	2	
31-097-19692	1,240-1,270	160												3	3	
31-097-19692	1,290-1,320	101												3.5	3.5	
31-097-19692	2,290-2,310		5.77	0.4	0.89	0.27	504	15	5	0.3	0.96		7			
31-097-19692	7,150-7,440	92												4	4	
31-099-04203	4,000-4,440	76												4.5	4.5	
31-099-10893	3,200-3,700	96												4.5	4.5	

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
31-099-04203	N.Y.	Seneca	Fayette	42.8762	-76.85854	Schaffer No. 2	Marcellus Shale	Middle Devonian	Cuttings
31-101-03924	N.Y.	Steuben	Woodhull	43.06303	-77.43067	Olin No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-101-03924	N.Y.	Steuben	Woodhull	43.06303	-77.43067	Olin No. 1	Geneseo Shale	Upper Devonian	Cuttings
31-101-04573	N.Y.	Steuben	Campbell	42.23546	-77.22256	Scudder No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-101-04573	N.Y.	Steuben	Campbell	42.23546	-77.22256	Scudder No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-101-04573	N.Y.	Steuben	Campbell	42.23546	-77.22256	Scudder No. 1	Geneseo Shale	Upper Devonian	Cuttings
31-101-21468	N.Y.	Steuben	Avoca	42.41958	-77.45354	Avoca No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-101-21468	N.Y.	Steuben	Avoca	42.41958	-77.45354	Avoca No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-101-21468	N.Y.	Steuben	Avoca	42.41958	-77.45354	Avoca No. 1	Geneseo Shale	Upper Devonian	Cuttings
31-101-03924	N.Y.	Steuben	Woodhull	42.0631	-77.4306	Olin No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-101-13699	N.Y.	Steuben	Wheeler	42.5372	-77.2157	Columbia NYS Reforestation No. 6	Trenton Limestone	Upper Ordovician	Cuttings
31-101-21468	N.Y.	Steuben	Avoca	42.41958	-77.45354	Avoca No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-109-04130	N.Y.	Tompkins	Enfield	42.44211	-76.5928	Grund No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-109-04467	N.Y.	Tompkins	Newfield	42.38417	-76.54083	Richardson Fee No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-109-10243	N.Y.	Tompkins	Enfield	42.40099	-76.66854	R. Place No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-109-10243	N.Y.	Tompkins	Enfield	42.40099	-76.66854	R. Place No. 1	Cherry Valley Limestone	Middle Devonian	Cuttings
31-109-10243	N.Y.	Tompkins	Enfield	42.40099	-76.66854	R. Place No. 1	Manlius Limestone	Lower Devonian	Cuttings
31-109-13173	N.Y.	Tompkins	Lansing	42.52296	-76.5052	Cargill Cove Test No. 17	Lodi Limestone	Upper Devonian	Core
31-117-05116	N.Y.	Wayne	Arcadia	43.15198	-77.0698	Hammond No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-121-13278	N.Y.	Wyoming	Arcade	42.53465	-78.39469	George No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-121-22042	N.Y.	Wyoming	Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-121-22042	N.Y.	Wyoming	Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-121-22042	N.Y.	Wyoming	Middlebury	42.82192	-78.09957	Titus Bros. No. 1	Marcellus Shale	Middle Devonian	Cuttings
31-121-22042	N.Y.	Wyoming	Middlebury	42.82192	-78.09957	Titus Brothers. No. 1	Trenton Limestone	Upper Ordovician	Cuttings
31-123-04796	N.Y.	Yates	Benton	42.68333	-76.9779	Borglum No. 1	Genundewa Limestone	Upper Devonian	Cuttings
31-123-04796	N.Y.	Yates	Benton	42.68333	-76.9779	Borglum No. 1	Geneseo Shale	Upper Devonian	Cuttings
31-123-04796	N.Y.	Yates	Benton	42.68333	-76.9779	Borglum No. 1	Lodi Limestone	Upper Devonian	Cuttings
31-123-04796	N.Y.	Yates	Benton	42.68333	-76.9779	Borglum No. 1	Marcellus Shale	Middle Devonian	Cuttings
34-001-20007	Ohio	Adams	Monroe	38.7067254	-83.5113077	Noah Hughes	Trenton Limestone	Upper Ordovician	Core
34-005-21762	Ohio	Ashland	Lake	40.7234971	-82.1292371	K. & R. Mosher	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-005-23901	Ohio	Ashland	Jackson	40.9799274	-82.1778129	R. Rogers	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Marcellus Shale	Middle Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
31-099-04203	50-80		1.72	0.3	0.19	0.31	437	11	18	0.5	1		11			
31-101-03924	3,170-3,190	6														
31-101-03924	3,190-3,220	21														
31-101-04573	2,082-2,101	66														
31-101-04573	2,319-2,344	66												3	3	
31-101-04573	2,344-2,389	104														
31-101-21468	2,380-2,410	122														
31-101-21468	3,110-3,140		1.57	0.6	0.56	0.21	459	36	13	0.5	0.77		2			
31-101-21468	2,410-2,430	106												2	3	
31-101-03924	9,785-10,300	59												4.5	4.5	
31-101-13699	7,990-8,100	680												3.5	4	
31-101-21468	7,570-7,620	143												3.5	3.5	
31-109-04130	7,400-7,700	64												4.5	4.5	
31-109-04467	7,620-7,770	24												4	4	
31-109-10243	2,850-2,930		0.58	0.1	0.4	0.15	348	69	26	0.4	1.37		4			
31-109-10243	2,980-3,020	57														
31-109-10243	3,240-3,290	74												3.5	4	
31-109-13173	33-34	1,007												2.5	3	
31-117-05116	2,590-2,630	141												2	2	
31-121-13278	5,870-5,970	166												2.5	2.5	
31-121-22042	430-460	106														
31-121-22042	560-600	92												2	2	
31-121-22042	810-840		7.07	2.8	15	0.39	437	212	6	0.2	0.54		25			
31-121-22042	4,170-4,210	142												2.5	2.5	
31-123-04796	137-175	73														
31-123-04796	271-308	121														
31-123-04796	243-264	87														
31-123-04796	1,051-1,095		6.22	0.3	0.69	0.25	535	11	4	0.3	1.74		33			
34-001-20007	850-852													1	1	
34-005-21762	4,552-4,730													1.5	1.5	Interval between 4,698 and 4,701 ft was not sampled.
34-005-23901	4,290-4,360													1	1.5	
34-007-21087	1,342-1,343		7.89	3	28	0.35	440	358	4	0.1	0.37	0.45	38			
34-007-21087	1,331										0.44					Streib (1981).
34-007-21087	1,340										0.59					Streib (1981).
34-007-21087	1,341										0.45					Streib (1981).
34-007-21087	1,351										0.56					Streib (1981).
34-007-21087	1,358										0.52					Streib (1981).
34-007-21087	1,172-1,173		6.63	3	28.8	0.29	442	434	4	0.1	0.38	0.56	29			
34-007-21087	1,059-1,069										0.4					Streib (1981).
34-007-21087	1,071										0.4					Streib (1981).
34-007-21087	1,076										0.41					Streib (1981).
34-007-21087	1,089										0.41					Streib (1981).
34-007-21087	1,098										0.49					Streib (1981).
34-007-21087	1,101										0.4					Streib (1981).
34-007-21087	1,125										0.54					Streib (1981).

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Rhinstreet Shale	Upper Devonian	Core
34-007-21087	Ohio	Ashtabula	Conneaut	41.9401659	-80.5517037	Bessemer & Le Railroad Co	Onondaga Limestone	Middle Devonian	Core
34-007-24118	Ohio	Ashtabula	Saybrook	41.8358219	-80.8392744	Downes	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-009-23062	Ohio	Athens	Dover	39.4278551	-82.0757229	Millfield Coal & Mining Co.	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-013-20277	Ohio	Belmont	Mead	39.9786066	-80.8443978	R L Brown	Rhinstreet Shale?	Upper Devonian	Core
34-013-20277	Ohio	Belmont	Mead	39.9786066	-80.8443978	R L Brown	Lower Huron Mbr of Ohio Sh?	Upper Devonian	Core
34-019-20553	Ohio	Carroll	Washington	40.6064786	-80.9855041	J. Mcallister	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-029-20665	Ohio	Colombiana	Knox	40.8230201	-81.0368169	Hoffman Unit	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-031-21995	Ohio	Coshocton	Crawford	40.39478	-81.8034502	Brenly A	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-031-22139	Ohio	Coshocton	Adams	40.3653856	-81.6496276	C. Lahmers	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-031-22139	Ohio	Coshocton	Adams	40.3653856	-81.6496276	C. Lahmers	Onondaga Limestone	Middle Devonian	Cuttings
34-031-22838	Ohio	Coshocton	White Eyes	40.305833	-81.78	No. 3 Barth	Utica Shale	Upper Ordovician	Core
34-035-21673	Ohio	Cuyahoga	Brooklyn	41.456761	-81.6887995	Ltv Steel	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-041-20104	Ohio	Delaware	Brown	40.3058711	-82.965986	Innis	Trenton Ls-Black River Ls?	Upper Ordovician	Cuttings
34-041-60007	Ohio	Delaware	Troy	40.3393946	-83.0367096		Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-041-60007	Ohio	Delaware	Troy	40.3393946	-83.0367096		Onondaga Limestone	Middle Devonian	Core
34-043-20001	Ohio	Erie	Oxford	41.3264284	-82.720514	W. Mack	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-043-20005	Ohio	Erie	Huron	41.3959412	-82.5448563	Ny, Chicago & St Louis Rr	Huron Mbr of Ohio Sh-Rhinstreet Sh	Upper Devonian	Core
34-043-20005	Ohio	Erie	Huron	41.3959412	-82.5448563	Ny, Chicago & St Louis Rr	Columbus Limestone	Middle Devonian	Core
34-045-20234	Ohio	Fairfield	Rush Creek	39.7169537	-82.3804449	D. Merckle	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-045-21222	Ohio	Fairfield	Pleasant	39.8036883	-82.5477146	Watson M.	Utica Sh-Trenton Ls	Upper Ordovician	Cuttings
34-045-61700	Ohio	Fairfield	Bloom	39.8051357	-82.8059218		Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-047-20001	Ohio	Fayette	Union	39.4977568	-83.4174144	E A Hopkins	Trenton Limestone	Upper Ordovician	Core
34-049-60004	Ohio	Franklin	Jefferson	39.9969046	-82.8055543		Lower Huron Mbr of Ohio Sh	Upper Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
34-007-21087	1,131										0.42					Streib (1981).
34-007-21087	1,141										0.44					Streib (1981).
34-007-21087	1,158										0.5					Streib (1981).
34-007-21087	1,159										0.47					Streib (1981).
34-007-21087	1,160										0.45					Streib (1981).
34-007-21087	1,161										0.43					Streib (1981).
34-007-21087	1,162										0.44					Streib (1981).
34-007-21087	1,163										0.44					Streib (1981).
34-007-21087	1,164										0.51					Streib (1981).
34-007-21087	1,171										0.43					Streib (1981).
34-007-21087	1,181										0.44					Streib (1981).
34-007-21087	1,184										0.46					Streib (1981).
34-007-21087	1,191										0.45					Streib (1981).
34-007-21087	1,199										0.54					Streib (1981).
34-007-21087	1,201										0.42					Streib (1981).
34-007-21087	1,378-1,379													1	1.5	
34-007-24118	4,720-4,840													1.5	1.5	
34-009-23062	5,490-5,570													1	1.5	Moderate caving throughout this interval.
34-013-20277	5,574-5,577		5.97	3.6	3.62	0.22	443	61	4	0.5	1.04		49			
34-013-20277	4,385-4,387		0.44	0.2	0.27	0.12	443	61	27	0.4	0.78		38			
34-019-20553	7,880-8,040													2	2	Interval between 7,890 and 7,930 ft was not sampled; gray and green shale, white and yellow sandstone; some probable cavings from Salina Group.
34-029-20665	7,260-7,380													2	2.5	Minor Black River Limestone; sparse to abundant Utica Shale cavings throughout.
34-031-21995	5,460-5,580													1+	1.5	
34-031-22139	2,300-2,460		2.27	1.2	8.24	0.29	437	363	13	0.1	0.42	0.55	53			Moderate gray-shale caving.
34-031-22139	2,850-3,020													1.5	1.5	
34-031-22838	5,634-5,745													1	1.5	A.G. Harris and N.R. Stamm (unpublished data).
34-035-21673	4,350-4,480													1.5	1.5	Sparse to moderate Utica Shale caving throughout.
34-041-20104	2,240-2,340													1	1.5	Sparse to moderate Upper Ordovician and Utica Shale caving, particularly in Trenton Limestone.
34-041-60007	17-20		8.82	2	41.7	0.55	429	473	6	0	0.35	0.52	38			Core no. 2648.
34-041-60007	105-109															Core no. 2648.
34-043-20001	2,410-2,508													1+	1+	
34-043-20005	73-75		5.8	1.4	25.9	0.4	429	446	7	0.1	0.45	0.69	35			
34-043-20005	227-229															
34-045-20234	1,536-1,640		5.95	3	29	0.57	432	488	10	0.1	0.44	0.71	52			
34-045-21222	3,400-3,440													1	1+	Coarser than 8 mesh; interval between 3,410 and 3,420 ft is missing.
34-045-61700	416-425		4.92	0.5	18	0.48	428	365	10	0	0.41	0.55	37			Core no. 2740.
34-047-20001	1,416-1,417													1	1	
34-049-60004	636-638		7.32	2	36.3	0.42	433	496	6	0.1	0.44	0.73	32			Permit 12A.

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
34-049-60004	Ohio	Franklin	Jefferson	39.9969046	-82.8055543		Onondaga Limestone	Middle Devonian	Core
34-053-20482	Ohio	Gallia	Walnut	38.7518485	-82.3632368	S Carpenter	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-059-20799	Ohio	Guernsey	Wills	40.0100181	-81.4246862		Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-071-20006	Ohio	Highland	Fairfield	39.3781769	-83.5724158	Emma Swingley	Trenton Limestone	Upper Ordovician	Core
34-071-60007	Ohio	Highland	Concord	39.0497718	-83.6176284		Trenton Limestone	Upper Ordovician	Core
34-073-20497	Ohio	Hocking	Starr	39.4445545	-82.299642	S. Kappel	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-073-20611	Ohio	Hocking	Benton	39.3746404	-82.5751468	T.B. Amerine	Devonian limestone?	Middle Devonian	Cuttings
34-073-23181	Ohio	Hocking	Ward	39.4864842	-82.1799334	Peabody Coal Co.	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-075-24916	Ohio	Holmes	Hardy	40.559797	-81.8781534	A. Miller-B. Raber Unit	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-077-20062	Ohio	Huron	Bronson	41.1864373	-82.6225429	I. & J. Maxwell	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-077-20144	Ohio	Huron	Fitchville	41.105938	-82.525375	R. Gray	Columbus Limestone	Middle Devonian	Core
34-079-20072	Ohio	Jackson	Liberty	39.0706801	-82.772712	C Grover	Onondaga Limestone	Middle Devonian	Core
34-079-20102	Ohio	Jackson	Franklin	39.0087193	-82.6385543	F J & C Trepanier	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-083-21567	Ohio	Knox	Middlebury	40.5035245	-82.5636981	H Simmons	Trenton Ls-Black River Ls?	Upper Ordovician	Cuttings
34-083-21970	Ohio	Knox	Howard	40.415634	-82.3049616	W.J. Blanchard	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Rhinestreet Shale	Upper Devonian	Core

Table 1

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _{o(mean)}	%R _{o(mean)} corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
34-049-60004	716-720													1	1.5	Permit 12A.
34-053-20482	2,500-2,501		2.49	0.5	7.59	0.22	431	254	7	0.1	0.47	0.53	33			
34-059-20799	2,750-2,833		2.92	0.7	7.47	0.49	432	256	17	0.1	0.45	0.52	49			Sample includes mixed gray and black shale from two envelopes.
34-071-20006	1,290-1,294													1	1+	
34-071-60007	1,227-1,230													1	1	Core no. 2626.
34-073-20497	1,995-2,070		5.22	2.5	25.9	0.49	434	496	9	0.1	0.39	0.62	47			
34-073-20611	1,718-1,842													1+	1+	
34-073-23181	4,870-4,960													1	1+	
34-075-24916	5,230-5,320													1+	1.5	
34-077-20062	2,734-2,885													1	1.5	Samples have fine particle sizes; some Utica Shale caving.
34-077-20144	867-869													1+	1+	
34-079-20072	1,452-1,453															
34-079-20102	3,700-4,010													1	1+	Poor samples, but best available in county; many 30-ft intervals.
34-083-21567	3,400-3,500													1	1.5	Top to bottom, moderate to numerous to sparse Utica Shale and Upper Ordovician limestone cavings.
34-083-21970	4,108-4,280													1.5	1.5	Fine to very fine Trenton Limestone-Black River Limestone with moderate caving.
34-083-22599	722										0.52					Streib (1981).
34-083-22599	742										0.49					Streib (1981).
34-083-22599	762										0.58					Streib (1981).
34-083-22599	780										0.54					Streib (1981).
34-083-22599	800										0.58					Streib (1981).
34-083-22599	820										0.55					Streib (1981).
34-083-22599	838										0.54					Streib (1981).
34-083-22599	858										0.61					Streib (1981).
34-083-22599	878										0.56					Streib (1981).
34-083-22599	896										0.56					Streib (1981).
34-083-22599	916										0.54					Streib (1981).
34-083-22599	936										0.58					Streib (1981).
34-083-22599	944										0.57					Streib (1981).
34-083-22599	960										0.58					Streib (1981).
34-083-22599	990										0.55					Streib (1981).
34-083-22599	1,021										0.58					Streib (1981).
34-083-22599	1,051										0.55					Streib (1981).
34-083-22599	1,074										0.56					Streib (1981).
34-083-22599	1,092										0.56					Streib (1981).
34-083-22599	1,112										0.59					Streib (1981).
34-083-22599	1,130										0.57					Streib (1981).
34-083-22599	1,150										0.56					Streib (1981).
34-083-22599	1,100-1,101		7.2	4.7	39.1	0.25	439	543	3	0.1	0.44	0.75	34			
34-083-22599	1,188-1,189		3.26	0.8	12.5	0.25	442	384	8	0.1	0.38	0.51	35			

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Olentangy Sh-Rhinestreet Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Olentangy Sh-Rhinestreet Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Olentangy Sh-Rhinestreet Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Olentangy Sh-Rhinestreet Sh	Upper Devonian	Core
34-083-22599	Ohio	Knox	Clinton	40.3977816	-82.5028759	L Beckholt	Onondaga Limestone	Middle Devonian	Core
34-085-20017	Ohio	Lake	Painesville	41.7548976	-81.2821487	New York Central System	Marcellus Shale	Middle Devonian	Core
34-085-20017	Ohio	Lake	Painesville	41.7548976	-81.2821487	New York Central System	Rhinestreet Shale	Upper Devonian	Core
34-085-20017	Ohio	Lake	Painesville	41.7548976	-81.2821487	New York Central System	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-085-20017	Ohio	Lake	Painesville	41.7548976	-81.2821487	New York Central System	Onondaga Limestone	Middle Devonian	Core
34-085-20142	Ohio	Lake	Perry	41.7505972	-81.1569408	Calhio Chemical Inc	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-089-21826	Ohio	Licking	Mary Ann Twp.	40.1564117	-82.3215541	L. Crowley	Utica Sh-Trenton Ls	Upper Ordovician	Cuttings
34-089-22272	Ohio	Licking	Etna	39.9647769	-82.6727244	Snider	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-093-21038	Ohio	Lorain	Camden	41.2746491	-82.3367033	J. Bucks	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-093-21100	Ohio	Lorain	Grafton	41.2261335	-82.0259115	B & R Mcguire	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-093-21370	Ohio	Lorain	Grafton	41.2062101	-82.0552031	L. Pall	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-101-20174	Ohio	Marion	Big Island	40.5872166	-83.2293787	Gracely Farms Inc	Trenton Limestone	Upper Ordovician	Core
34-105-22058	Ohio	Meigs	Chester	39.0910854	-81.8630034	F C Newell	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-115-23674	Ohio	Morgan	Bristol	39.725856	-81.7025476	Willey-Binion-Hooks	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-117-20124	Ohio	Morrow	Lincoln	40.4783783	-82.8366045	A. Burr	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-117-60037	Ohio	Morrow	Harmony	40.4774015	-82.7892632		Huron Mbr-Rhinestreet Sh?	Upper/Middle Devonian	Core
34-117-60037	Ohio	Morrow	Harmony	40.4774015	-82.7892632		Onondaga Limestone	Middle Devonian	Core
34-119-21617	Ohio	Muskingum	Salem	40.0145594	-81.869429	W. & D. Winegardner	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-119-27591	Ohio	Muskingum	Wayne	39.9255178	-81.9967202	R. Barnett Unit	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-121-21730	Ohio	Noble	Olive	39.7320433	-81.5523936	P. Archibald	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-121-22255	Ohio	Noble	Enoch	39.7135806	-81.4621023	H & M Shockling	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-121-22255	Ohio	Noble	Enoch	39.7135806	-81.4621023	H & M Shockling	Rhinestreet Shale	Upper Devonian	Core
34-121-22255	Ohio	Noble	Enoch	39.7135806	-81.4621023	H & M Shockling	Onondaga Limestone?	Middle Devonian	Core
34-127-22380	Ohio	Perry	Monday Creek	39.6365511	-82.3419402	R. Glore	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-127-22855	Ohio	Perry	Jackson	39.6862843	-82.295298	F. Sweeney	Onondaga Limestone	Middle Devonian	Cuttings
34-127-26952	Ohio	Perry	Monroe	39.6298563	-82.0663787	Deaver-Norman	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-129-20015	Ohio	Pickaway	Jackson	39.6254669	-83.0877895	Riggin	Trenton Ls-Black River Ls?	Upper Ordovician	Cuttings
34-129-60002	Ohio	Pickaway	Washington	39.620099	-82.894036		Lower Huron Mbr of Ohio Sh	Upper Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
34-083-22599	1,188										0.5					Streib (1981).
34-083-22599	1,208										0.63					Streib (1981).
34-083-22599	1,228										0.64					Streib (1981).
34-083-22599	1,247										0.59					Streib (1981).
34-083-22599	1,253-1,254													1	1+	
34-085-20017	1,156-1,158		6.19	4.5	27.2	0.5	438	439	8	0.1	0.46	0.68	34			
34-085-20017	952-954		2.11	0.6	4.78	0.3	436	227	14	0.1	0.42	0.48	45			
34-085-20017	841-843		6.67	4.6	31.7	0.53	437	475	8	0.1	0.38	0.56	40			
34-085-20017	1,170-1,172													1+	1.5	
34-085-20142	4,830-4,980													1.5	1.5	Abundant caving, but only well in county available to be sampled.
34-089-21826	4,131-4,198													1.5	1.5	
34-089-22272	3,140-3,270													1.5	1.5	Interval between 3,190 and 3210 ft was not sampled; very fine Black River Limestone with abundant coarse-grained caving.
34-093-21038	3,320-3,410													1.5	1.5	Mainly Trenton Limestone.
34-093-21100	1,072-1,073		5.66	2.7	24.1	0.28	434	427	5	0.1	0.36	0.49	35			
34-093-21370	4,070-4,420													1	1.5	10-ft interval between 4,070 and 4,210 ft; 30-ft interval between 4,210 and 4,420 ft.
34-101-20174	1,525.75-1,526.25													1	1+	
34-105-22058	3,300-3,301		5.52	4.3	21.7	0.22	448	392	4	0.2	0.48	0.67	36			
34-115-23674	6,590-6,670													1.5	1.5	Intervals between 6,600 and 6,610 ft and 6,640 and 6,650 ft are missing.
34-117-20124	2,620-2,690													1	1.5	Mainly Trenton Limestone and minor Utica Shale in upper 10 ft and Black River Limestone in lower 20 ft.
34-117-60037	708-713		9.92	4.4	55.7	0.41	428	561	4	0.1	0.43	0.73	38			Core no. 2770.
34-117-60037	776-779													1	1+	Core no. 2770.
34-119-21617	2,400-2,532		4.02	2.2	18.4	0.43	438	458	11	0.1	0.43	0.66	53			Mixed very fine and coarse particles of gray and black shale.
34-119-27591	5,280-5,360													1.5	1.5	
34-121-21730	7,210-7,380													1.5	2	Poor samples, mainly Black River Limestone, from only well in county available to be sampled.
34-121-22255	3,462-3,463		7.03	4.5	17.7	0.14	449	252	2	0.2	0.73	0.83	30			
34-121-22255	3,999-4,000		2.09	2.1	1.8	0.13	446	86	6	0.5	1.01		40			
34-121-22255	4,150-4,151													1	1+	
34-127-22380	1,759-1,923		4.56	2.2	22.3	0.56	428	490	12	0.1	0.46	0.76	52			
34-127-22855	2,074-2,196													1.5	1.5	
34-127-26952	5,180-5,330													1	1.5	Intervals between 5,190 and 5,240 ft and 5,250 and 5,290 ft are missing; the only well in county available for sampling.
34-129-20015	1,820-1,910													1	1+	Moderate gray-shale caving throughout.
34-129-60002	377-387		10.5	2.1	43.6	0.6	424	413	6	0	0.42	0.54	37			Core no. 2788.

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
34-131-20001	Ohio	Pike	Beaver	39.0388669	-82.8080816	R. Bapst	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-131-20022	Ohio	Pike	Pebble	39.1037366	-83.0648932	L Miller	Onondaga Limestone?	Middle Devonian	Core
34-131-60059	Ohio	Pike	Pebble	39.105582	-83.111754		Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-133-24159	Ohio	Portage	Atwater	41.0562992	-81.1675912	Knost	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-139-20329	Ohio	Richland	Butler	40.9297097	-82.420909	C.A. Evel	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-139-20401	Ohio	Richland	Jefferson	40.632039	-82.4934932	Gatton	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-139-20523	Ohio	Richland	Plymouth	40.9212127	-82.6854238	H N Rohig Unit	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-139-20527	Ohio	Richland	Washington	40.6531727	-82.5514214	P L Kocheiser	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-141-60006	Ohio	Ross	Huntington	39.297389	-83.018938	Hirsch	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-141-60006	Ohio	Ross	Huntington	39.297389	-83.018938	Hirsch	Onondaga Limestone	Middle Devonian	Core
34-145-60142	Ohio	Scioto	Brush Creek	38.8647948	-83.2046664		Rhinestreet Sh-Marcellus Sh?	Upper/Middle Devonian	Core
34-147-61078	Ohio	Seneca	Liberty	41.2265136	-83.1983546		Trenton Limestone	Upper Ordovician	Core
34-153-20907	Ohio	Summit	Northampton	41.1685197	-81.5332874	Northampton Twp. Trustees	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-153-22683	Ohio	Summit	Green	40.936283	-81.4560618	North Canton Transfer	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-153-60416	Ohio	Summit	Norton	41.0154142	-81.655299		Marcellus Shale	Middle Devonian	Core
34-153-60416	Ohio	Summit	Norton	41.0154142	-81.655299		Rhinestreet Shale	Upper Devonian	Core
34-153-60416	Ohio	Summit	Norton	41.0154142	-81.655299		Huron Mbr of Ohio Sh	Upper Devonian	Core
34-153-60416	Ohio	Summit	Norton	41.0154142	-81.655299		Onondaga Limestone	Middle Devonian	Core
34-155-21238	Ohio	Trumbull	Newton	41.1468323	-80.9129792	M & A Meleski	Marcellus Shale	Middle Devonian	Core
34-155-21238	Ohio	Trumbull	Newton	41.1468323	-80.9129792	M & A Meleski	Rhinestreet Shale	Upper Devonian	Core
34-155-21238	Ohio	Trumbull	Newton	41.1468323	-80.9129792	M & A Meleski	Onondaga Limestone	Middle Devonian	Core
34-155-23554	Ohio	Trumbull	Farmington	41.3746813	-80.9934368	Maitino Farms Comm No.1 No. 3788-001	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-157-20066	Ohio	Tuscarawas	Dover	40.5665765	-81.5033873	Robinson Clay Products	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
34-157-23449	Ohio	Tuscarawas	Dover	40.4977575	-81.5207965	F. & D. Kimble	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-157-24558	Ohio	Tuscarawas	Lawrence	40.6225319	-81.4606823	M.A.C. Unit	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-167-23521	Ohio	Washington	Warren	39.3939231	-81.5634285	F L House	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
34-167-23521	Ohio	Washington	Warren	39.3939231	-81.5634285	F L House	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-167-23521	Ohio	Washington	Warren	39.3939231	-81.5634285	F L House	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-167-23521	Ohio	Washington	Warren	39.3939231	-81.5634285	F L House	Huron Mbr of Ohio Sh	Upper Devonian	Core
34-167-28515	Ohio	Washington	Wesley	39.4324049	-81.8102096	Pinkerton	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-169-21765	Ohio	Wayne	Paint	40.721122	-81.6607632	J.L. Cramer	Trenton Limestone	Upper Ordovician	Cuttings
34-169-24792	Ohio	Wayne	Congress	40.9540487	-82.0171044	C. Yost	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
34-169-24850	Ohio	Wayne	Franklin	40.7108108	-81.9087648	Davis View Farms	Utica Sh-Trenton Ls-Black River Ls	Upper Ordovician	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
34-131-20001	2,785-2,907													1	1+	Poor samples, but best available in county.
34-131-20022	452-453													1	1+	
34-131-60059	432-436		7.2	1.7	34.4	0.38	431	483	5	0.1	0.42	0.66	32			Core no. 2804.
34-133-24159	6,490-6,700													1.5	1.5	Samples are poor; may represent facies change, but are best samples in county.
34-139-20329	3,750-3,870													1	1+	
34-139-20401	3,820-3,950													1	1+	Sparse to moderate cavings: Queenston Sandstone, Upper Ordovician units, and Utica Shale.
34-139-20523	690-694		7.27	1.9	33.4	0.46	432	459	6	0.1	0.43	0.68	31			
34-139-20527	1,029-1,030		8.08	5.2	41.2	0.37	433	510	5	0.1	0.43	0.72	31			
34-141-60006	447-451		4.43	1.2	21	0.38	436	473	9	0.1	0.4	0.62	37			
34-141-60006	566-568															
34-145-60142	480-481		9.57	4	51	0.65	433	533	7	0.1	0.33	0.53	30			Core no. 2814.
34-147-61078	1,573-1,579													1	1+	Core no. 2580.
34-153-20907	5,420-5,540													1.5	1.5	Interval between 5,460 and 5,510 ft not sampled.
34-153-22683	6,030-6,230													1.5	1.5	Samples are missing from these intervals—6,050-6,100 ft, 6,110-6,160 ft, and 6,190-6,210 ft.
34-153-60416	2,176-2,180		6.33	1.5	25.2	0.34	438	398	5	0.1	0.48	0.67	35			Core no. 510.
34-153-60416	2,050-2,054		6.95	2.4	27	0.43	437	388	6	0.1	0.47	0.62	39			Core no. 510.
34-153-60416	1,880-1,886		9.21	4.8	39.4	0.46	440	428	5	0.1	0.47	0.72	48			Core no. 510.
34-153-60416	2,182-2,186													1.5	1.5	Core no. 510.
34-155-21238	2,697-2,698		5	4.6	18.2	0.38	444	363	8	0.2	0.42	0.54	33			
34-155-21238	2,527.5-2,528.5		8.44	5.7	37	0.18	440	439	2	0.1	0.42	0.61	37			
34-155-21238	2,707.75-2,708.25													1.5	1.5	
34-155-23554	5,800-6,040													2	2	Only well in county with samples; too fine below 6,040 ft.
34-157-20066	2,346-2,430		2.58	0.9	8.93	0.37	435	346	14	0.1	0.44	0.68	55			
34-157-23449	6,320-6,470													1.5	1.5	Interval between 6,410 and 6,420 ft not sampled; coarse cavings, Trenton Limestone is mainly greater than 20 mesh.
34-157-24558	6,200-6,430													1.5	1.5	6,200-6,410 ft has 30-ft interval; 6,410-6,430 ft has 10-ft interval.
34-167-23521	3,385-3,387		2.93	2.4	11.1	0.18	446	378	6	0.2	0.58	0.78	40			
34-167-23521	3,491										0.92					Streib (1981).
34-167-23521	3,610										0.26					Streib (1981).
34-167-23521	3,640										0.57					Streib (1981).
34-167-28515	6,470-6,550													1.5	1.5	Sparse to moderate caving, but best available well in county.
34-169-21765	5,650-5,770													1.5	1.5	
34-169-24792	4,540-4,600													1	1+	
34-169-24850	5,130-5,250													1	1.5	Trenton chips only in interval between 5,130 and 5,150 ft; added to samples from interval between 5,150 and 5,250 ft.

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
34-175-20236	Ohio	Wyandot	Pitt	40.7964183	-83.2432234	F. Smalley	Trenton Limestone	Upper Ordovician	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Marcellus Shale	Middle Devonian	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Marcellus Shale	Middle Devonian	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Marcellus Shale	Middle Devonian	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Marcellus Shale	Middle Devonian	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Marcellus Shale	Middle Devonian	Core
037-003-20980	Pa.	Allegheny	Monongahela	40.1972131	-79.9005556	No. 1 Combustion Eng.	Onondaga Limestone	Middle Devonian	Core
037-003-90000	Pa.	Allegheny	Glenshaw	40.5999467	-79.9138903	Backhaus	Tully Ls-Onondaga Ls-Helderberg Ls	Middle/Upper Devonian	Cuttings
037-005-01238	Pa.	Armstrong	Distant	40.8881883	-79.3546708	#4 Lowrey Martin	Tully Ls-Onondaga Ls-Helderberg Ls	Middle/Upper Devonian	Cuttings
037-005-21201	Pa.	Armstrong	Distant	40.8848272	-79.3470753	No. 1 Nellie Martin	Marcellus Shale	Middle Devonian	Cuttings
037-005-21201	Pa.	Armstrong	Distant	40.8848272	-79.3470753	No. 1 Nellie Martin	Black River Limestone	Upper Ordovician	Cuttings
037-007-00007	Pa.	Beaver	Ambridge	40.6089383	-80.2396658	Jones & Laughlin Steel	Onondaga Limestone	Middle Devonian	Core
037-009-20013	Pa.	Bedford	Rainsburg	39.9455664	-78.604375	Mary Martin	Trenton Limestone	Upper Ordovician	Cuttings
037-009-90002	Pa.	Bedford	Bedford	40.1068767	-78.6192603	Jessie Miller	Trenton Limestone	Upper Ordovician	Cuttings
037-013-20001	Pa.	Blair	Blue Knob	40.3153536	-78.5845883	PA Tract 26A	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
037-013-20010	Pa.	Blair	Tipton	40.7266958	-78.3461408	No. 1 Blair Gap Water	Marcellus Shale	Middle Devonian	Core
037-015-20001	Pa.	Bradford	Colley	41.5806153	-76.3058842	No. 1 Blemle	Marcellus Shale	Middle Devonian	Cuttings
037-015-90005	Pa.	Bradford	Bentley Creek	41.9821622	-76.6782517	Carver	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
037-015-90006	Pa.	Bradford	Leroy	41.7070967	-76.6860756	French	Tully Limestone	Middle Devonian	Cuttings
037-019-20530	Pa.	Butler	Butler	40.8640147	-79.9964739	No. 2 Rozic	Marcellus Shale	Middle Devonian	Cuttings
037-019-90063	Pa.	Butler	Slippery Rock	41.1066039	-80.0402764	Hockenberry	Tully Ls-Onondaga Ls-Helderberg Ls	Middle/Upper Devonian	Cuttings
037-019-90063	Pa.	Butler	Slippery Rock	41.1066039	-80.0402764	Hockenberry	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
037-021-20016	Pa.	Cambria	Carrolltown	40.6214314	-78.7158978	No. 1 Shero	Marcellus Shale	Middle Devonian	Cuttings
037-023-90070	Pa.	Cameron	Sinnemahoning	41.3579819	-78.1057342	Dodge Lumber Co.	Tully Limestone	Middle Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
34-175-20236	1,473-1,490													1	1	
037-003-20980	7,494	247	5.38	0.1	0.22	0.37	585	4	7	0.4	2.24		15	n/a	n/a	n/a
037-003-20980	7,387										2.36					Streib (1981).
037-003-20980	7,422										2.49					Streib (1981).
037-003-20980	7,462										2.43					Streib (1981).
037-003-20980	7,482										2.58					Streib (1981).
037-003-20980	7,495	245.3												3	3	Pyrite—euhedral, finely crystalline.
037-003-90000	6,040-6,090, 6,335-6,370, 6,470-6,622	117.8												n/a	n/a	Pyrite—finely crystalline, framboidal, replaced fossils (rods and spines), euhedral; sphalerite; lithic fragments—reddish felsitic and (or) arkosic; two fish fragments and two silica sponge spicules.
037-005-01238	6,120-6,181, 6,560-6,576, 6,691-6,729	104.9												n/a	n/a	Pyrite—euhedral, finely crystalline, framboidal, replaced fossils; sphalerite(?).
037-005-21201	6,260-6,380	57.4	5.26	0.6	0.43	0.3	417	8	6	0.6	1.57		14	n/a	n/a	n/a
037-005-21201	12,280-12,400	2.1												4	4.5	Pyrite—finely crystalline; clear zircons(?); phosphatic bryozoans; silicified bryozoans, tubes, and ostracodes; dolomitized crinoid columnal.
037-007-00007	5,255	344												n/a	n/a	Sphalerite; pyrite—euhedral, finely crystalline.
037-009-20013	1,490-1,700	106												n/a	n/a	Sphalerite; fluorite; pyrite—euhedral, finely crystalline.
037-009-90002	7,913-8,130	117.1												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (echinoderm, spicules); sphalerite.
037-013-20001	6,775-6,785, 6,940-6,960	122.8												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (rods and spines), framboids; orange sphalerite; white mica; pink zircons(?).
037-013-20010	7,049	176.1	0.26	0	0.02	0.33	326	8	127	0.6	0.65		24	n/a	n/a	n/a
037-015-20001	7,430-7,520	114.8	3.23	0.6	0.12	0.29	351	4	9	0.8	1.45		4	n/a	n/a	n/a
037-015-90005	4,216-4,267, 4,544-4,601	120.2												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (rare spines and shelly fragments); sphalerite—trace.
037-015-90006	2,837-3,054	101.7												n/a	n/a	Pyrite—euhedral, finely crystalline, framboids, replaced fossils (echinoderm, spines and rods); clear fluorite(?); silicified fossils (echinoderm, spines and rods).
037-019-20530	5,137-5,250	119.2	0.79	0.3	0.38	0.14	472	48	18	0.4	1.7		21	n/a	n/a	n/a
037-019-90063	4,483-4,540, 4,702-4,828, 4,841-4,987	97.4												n/a	n/a	Pyrite—framboids, finely crystalline; sphalerite; zircon; fluorite(?); barite(?); one fish tooth.
037-019-90063	8,812-9,202	105.3												2	3	Pyrite—euhedral, finely crystalline; sphalerite; fluorite(?); barite(?).
037-021-20016	8,175-8,200	113	3.03	1.1	0.55	0.49	372	18	16	0.7	1.4		7	n/a	n/a	n/a
037-023-90070	5,376-5,471	118.4												n/a	n/a	Pyrite—euhedral, finely crystalline, framboidal, replaced fossils (ostracodes, spines); sphalerite—trace; chitinozoans; bivalves.

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
037-025-20002	Pa.	Carbon	Palmerton	40.8559167	-75.6242528	No. 1 Graver Estate	Marcellus Shale	Middle Devonian	Cuttings
037-027-20001	Pa.	Centre	Madisonburg	40.9940975	-77.6014447	Long	Trenton Limestone	Upper Ordovician	Cuttings
037-027-90007	Pa.	Centre	Snow Shoe	41.1248606	-77.9801103	City of Philadelphia	Tully Limestone	Middle Devonian	Cuttings
037-031-20672	Pa.	Clarion	Kossuth	41.3284989	-79.5302547	No. 2 UNG	Marcellus Shale	Middle Devonian	Cuttings
037-031-90001	Pa.	Clarion	Clarion	41.2222769	-79.4428378	#33 Bryner	Tully Ls-Onondaga Ls	Middle Devonian	Cuttings
037-033-20050	Pa.	Clearfield	Luthersburg	41.0659014	-78.69477	#6 Hopkins	Helderberg Limestone	Lower Devonian	Cuttings
037-035-20276	Pa.	Clinton	Glen Union	41.3712922	-77.5666222	No. 1 PA Tract 285	Marcellus Shale	Middle Devonian	Cuttings
037-035-20276	Pa.	Clinton	Glen Union	41.3712922	-77.5666222	No. 1 PA Tract 285	Trenton Limestone	Upper Ordovician	Cuttings
037-035-90051	Pa.	Clinton	Jersey Mills	41.2587306	-77.4357603	No. 1 Chatham Water Works	Tully Limestone	Middle Devonian	Cuttings
037-035-90051	Pa.	Clinton	Jersey Mills	41.2587306	-77.4357603	No. 1 Chatham Water Works	Marcellus Shale	Middle Devonian	Cuttings
037-037-90000	Pa.	Columbia	Catawissa	40.8854006	-76.4041481	Knarr	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
037-039-20007	Pa.	Crawford	Harmonsburg	41.7155578	-80.3070492	Kardosh	Onondaga Limestone	Middle Devonian	Cuttings
037-039-20007	Pa.	Crawford	Harmonsburg	41.7155578	-80.3070492	Kardosh	Trenton Limestone	Upper Ordovician	Cuttings
037-047-00060	Pa.	Elk	Dents Run	41.3146647	-78.2871281	No. 1 PA Tract 26	Tully Limestone	Middle Devonian	Cuttings
037-047-00060	Pa.	Elk	Dents Run	41.3146647	-78.2871281	No. 1 PA Tract 26	Marcellus Shale	Middle Devonian	Cuttings
037-047-20033	Pa.	Elk	Huntley	41.2443731	-78.4702961	PA Tract 83	Onondaga Limestone	Middle Devonian	Core
037-049-20040	Pa.	Erie	Fairview SW	42.0142219	-80.4429758	PA Forest & Waters Block 1	Tully Ls-Onondaga Ls	Middle Devonian	Cuttings
037-049-20040	Pa.	Erie	Fairview SW	42.0142219	-80.4429758	PA Forest & Waters Block 1	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
037-025-20002	3,140-3,200	116.7	1.46	0.3	0.56	0.2	410	38	14	0.3	3.84		20	n/a	n/a	n/a
037-027-20001	14,850-14,960	117.1												4.5	4.5	Pyrite—euhedral, finely crystalline; fluorite(?); barite(?); sphalerite.
037-027-90007	7,125-7,312	113.2												n/a	n/a	Pyrite—finely crystalline, replaced fossils (tapered spines); sphalerite; trace barite.
037-031-20672	5,080-5,140	106.4	3.98	1.7	2.01	0.84	443	51	21	0.5	1.01		30	n/a	n/a	n/a
037-031-90001	5,214-5,250, 5,528-5,529	117.6												2	2.5	Pyrite—finely crystalline, replaced fossils (bryozoans, rods and spines); trace sphalerite; silicified bryozoans, rods and spines.
037-033-20050	7,222-7,358	110.2												n/a	n/a	Pyrite—finely crystalline, euhedral, framboidal; sphalerite; barite(?); phosphatic brachiopod(?) shards; phosphatized bryozoan infills.
037-035-20276	8,050-8,200	101.8	3.1	0.3	0.13	0.83	358	4	27	0.7	2.22		23	n/a	n/a	n/a
037-035-20276	14,500-14,670	118.5												4.5	5	Pyrite—euhedral, finely crystalline.
037-035-90051	7,304-7,388	119.5												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (spines, tubes); silica spines and tubes.
037-035-90051	8,344-8,383	118.2	3.56	0.6	0.21	0.73	355	6	21	0.7	2.29		13	n/a	n/a	n/a
037-037-90000	6,230-6,358, 6,478-6,501	115												n/a	n/a	Pyrite—finely crystalline, euhedral, spheroids, replaced fossils (rods and spines); trace sphalerite.
037-039-20007	2,860-2,960	116.4												1.5	1.5	Pyrite—euhedral, finely crystalline, spheroidal, framboidal; trace sphalerite; fluorite.
037-039-20007	6,290-6,400	110												1.5	1.5	Pyrite—euhedral, finely crystalline, replaced fossils (rare ostracodes); euhedral dark-brown mica; common phosphatic fossil fragments—brachiopods, bryozoan infilling, fish(?), echinoderms, ostracodes, and bivalves.
037-047-00060	6,175-6,294	122.4												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (echinoderm, rods and spines), framboidal; sphalerite; fibrous clear mineral—single fragment (probably not conodont).
037-047-00060	6,775-6,850	122.8	5.13	1.2	0.39	0.42	352	8	8	0.8	2.05		28	n/a	n/a	n/a
037-047-20033	6,487	214.8												3	3	Pyrite—euhedral, finely crystalline, replaced fossils (spines and rods); trace sphalerite; unknown clear grains (barite?, celestite?).
037-049-20040	1,103-1,149, 1,270-1,478	21.7												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (non-tapering solid and hollow tubes or spines); barite or fluorite—trace.
037-049-20040	4,291-4,756	116												1.5	2	Pyrite—finely crystalline, framboidal, replaced fossils (rods); fluorite(?); rare biotite euhedra; phosphatized bryozoan infillings.

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
037-049-20049	Pa.	Erie	North of North East	42.2515978	-79.9111953	PA Forest & Waters Block 2	Trenton Limestone	Upper Ordovician	Cuttings
037-049-20109	Pa.	Erie	Erie North	42.1427831	-80.0475631	#2 Hammermill	Onondaga Limestone	Middle Devonian	Cuttings
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Moscow Sh or Ludlowville Sh	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-20846	Pa.	Erie	Erie North	42.1534125	-80.1269544	Presque Isle State Park	Marcellus Shale	Middle Devonian	Core
037-049-90036	Pa.	Erie	Erie South	42.0468333	-80.0246661	Goodwill-Curley	Onondaga Limestone	Middle Devonian	Core
037-051-00128	Pa.	Fayette	Brownfield	39.7617417	-79.7286078	No. 8 Barton Estate	Tully Ls-Helderberg Ls	Middle/Upper Devonian	Cuttings
037-051-00128	Pa.	Fayette	Brownfield	39.7617417	-79.7286078	No. 8 Barton Estate	Marcellus Shale	Middle Devonian	Cuttings
037-053-20903	Pa.	Forest	Tylersburg	41.4846311	-79.2967758	No. 1 Collins-Clinger	Marcellus Shale	Middle Devonian	Cuttings
037-055-90000	Pa.	Franklin	Doyleburg	40.1845881	-77.6770453	#2 Amerile	Trenton Limestone	Upper Ordovician	Cuttings
037-059-20038	Pa.	Greene	Oak Forest	39.8605856	-80.1460158	No. 1 Gordon	Marcellus Shale	Middle Devonian	Cuttings
037-063-25073	Pa.	Indiana	Indiana	40.5789397	-79.1859256	No. 5 McCall	Tully Limestone	Middle Devonian	Core
037-063-25073	Pa.	Indiana	Indiana	40.5789397	-79.1859256	No. 5 McCall	Marcellus Shale	Middle Devonian	Core
037-065-00028	Pa.	Jefferson	McGees Mills	40.9415892	-78.8094019	No. 1 McClure	Marcellus Shale	Middle Devonian	Cuttings
037-065-90094	Pa.	Jefferson	Brookville	41.1405917	-79.0181517	Verstein & Klein	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
037-067-20001	Pa.	Juniata	McClure	40.6863706	-77.2808278	Shade Mt.	Trenton Limestone	Upper Ordovician	Cuttings
037-069-20001	Pa.	Lackawanna	Ransom	41.4117219	-75.8240744	Richards	Onondaga Limestone	Middle Devonian	Cuttings
037-073-20022	Pa.	Lawrence	New Castle North	41.0920053	-80.2819236	No. 1 Sokevitz	Tully Limestone	Middle Devonian	Core
037-073-20022	Pa.	Lawrence	New Castle North	41.0920053	-80.2819236	No. 1 Sokevitz	Marcellus Shale	Middle Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
037-049-20049	4,181-4,308	111.9												1.5	1.5	Pyrite—euohedral, finely crystalline, replaced fossils (snails); rare biotite euohedra; phosphatic fossils—brachiopod and fish fragments, bryozoan infillings, and snail steinkerns.
037-049-20109	1,390-1,590	103.4												1.5	1.5	Phosphatic and silica(?) spines and fossil fragments.
037-049-20846	1,041-1,049.6, 1,050-1,176	708.3												1.5	1.5	Reported by A.G. Harris (USGS unpublished report O&G-80-9/O&G-80-10).
037-049-20846	1,236	160.6	8.55	2.7	33.6	0.48	448	393	6	0.1	2.12		2	n/a	n/a	n/a
037-049-20846	1,218										0.52					Streib (1981).
037-049-20846	1,220										0.52					Streib (1981).
037-049-20846	1,225										0.64					Streib (1981).
037-049-20846	1,238										0.46					Streib (1981).
037-049-20846	1,245		1.65								0.56					Streib (1981).
037-049-90036	2,330	221.5												1.5	2	Pyrite—euohedral, finely crystalline, replaced fossils (rods, spines, sponge triaxons); sphalerite(?); glauconite; apatite(?); phosphatic brachiopod shards; silica sponge spicules.
037-051-00128	6,510-6,652, 7,401-7,500	117.3												2.5	2.5	Pyrite—euohedral, finely crystalline, framboidal, replaced fossils (coral or bryozoan fragment); garnet(?) grain; phosphatic shell fragments.
037-051-00128	7,030-7,105	115.4	4.74	0.9	0.18	0.7	382	4	15	0.8	2.16		30	n/a	n/a	n/a
037-053-20903	4,970-5,020	102.1	6.1	2.5	3.19	0.62	454	52	10	0.4	0.94		40	n/a	n/a	n/a
037-055-90000	1,478-1,598	119.7												n/a	n/a	Pyrite—euohedral, finely crystalline, replaced fossils (spines and gastropods); barite(?); silica spicules and ostracodes.
037-059-20038	7,860-7,960	101.5	5.92	1.2	3.07	0.56	406	52	9	0.3	1.44		5	n/a	n/a	n/a
037-063-25073	7,616	239.5												1.5	2	Pyrite—euohedral, finely crystalline; sphalerite; barite(?).
037-063-25073	7,801	108	0.23	0	0.03	0.29	415	13	126	0.5	2.47		7	n/a	n/a	n/a
037-065-00028	7,845-7,940	113.8	3.71	0.8	0.48	0.53	350	13	14	0.6	1.37		2	n/a	n/a	n/a
037-065-90094	6,077-6,101, 6,181-6,226	104.8												2.5	3	Pyrite—euohedral, finely crystalline, spheres, framboidal, replaced fossils (echinoderm, spines and rods); sphalerite; silicified fossils—echinoderm, spines and rods, gastropods.
037-067-20001	3,870-3,970	108.2												4	4	Pyrite—euohedral, finely crystalline, replaced fossils (spines and rods); phosphatic fossils—brachiopod fragments.
037-069-20001	7,443-7,701	117.3												n/a	n/a	Pyrite—euohedral, finely crystalline, replaced fossils (rods or filled tubes); sphalerite.
037-073-20022	3,984	172.1												2	2.5	Pyrite—finely crystalline, euohedral; unknown clear mineral; phosphatic spine.
037-073-20022	4,124	173.2	4.54	3.3	6.94	0.48	440	153	11	0.3	0.41		55	n/a	n/a	n/a

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
037-073-90004	Pa.	Lawrence	New Castle South	40.9431539	-80.2673736	Miller & Myer	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
037-079-90000	Pa.	Luzerne	Shickshinney	41.1981008	-76.2193647	Galey #1 Harrison	Helderberg Limestone	Lower Devonian	Core
037-081-90006	Pa.	Lycoming	White Pine	41.4343133	-77.2038628	No. 1 Hughes	Marcellus Shale	Middle Devonian	Cuttings
037-081-90006	Pa.	Lycoming	White Pine	41.4343133	-77.2038628	No. 1 Hughes	Tully Ls-Onondaga Ls	Middle Devonian	Cuttings
037-083-31744	Pa.	McKean	Cyclone	41.8719758	-78.6183956	No. 2 Minard Run Tr. 6295	Marcellus Shale	Middle Devonian	Cuttings
037-083-22529	Pa.	McKean	Derrick City	41.8821369	-78.6150928	Minard Run Track #1, Moody Lot	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
037-083-33511	Pa.	McKean	Cyclone	41.8673119	-78.6143547	Minard Run #1 Say	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
037-083-37291	Pa.	McKean	Cyclone	41.8688217	-78.6127033	Minard Run Oil Co.	Onondaga Limestone	Middle Devonian	Core
037-083-90004	Pa.	McKean	Port Allegany	41.84989	-78.3385817	#2 Nunn	Tully Ls-Onondaga Ls	Middle Devonian	Cuttings
037-085-20004	Pa.	Mercer	Sharpsville	41.319885	-80.4616094	McKnight	Trenton Limestone	Upper Ordovician	Core
037-085-20036	Pa.	Mercer	Jackson Center	41.3512597	-80.1764272	Temple	Onondaga Limestone	Middle Devonian	Cuttings
037-085-22421	Pa.	Mercer	Grove City	41.2176944	-80.0411944	#4 Montgomery	Trenton Limestone	Upper Ordovician	Core
037-085-22421	Pa.	Mercer	Grove City	41.2176944	-80.0411944	#4 Montgomery	Black River Limestone	Upper Ordovician	Core
037-085-22854	Pa.	Mercer	Jackson Center	41.3286111	-80.1413889	#1 Psensky	Tully Limestone	Middle Devonian	Cuttings
037-085-22854	Pa.	Mercer	Jackson Center	41.3286111	-80.1413889	#1 Psensky	Onondaga Limestone	Middle Devonian	Cuttings
037-085-22854	Pa.	Mercer	Jackson Center	41.3286111	-80.1413889	#1 Psensky	Marcellus Shale	Middle Devonian	Cuttings
037-085-22854	Pa.	Mercer	Jackson Center	41.3286111	-80.1413889	#1 Psensky	Marcellus Shale	Middle Devonian	Cuttings
037-085-90010	Pa.	Mercer	Sandy Lake	41.2724492	-80.0360128	Maude Davidson	Trenton Limestone	Upper Ordovician	Cuttings
037-087-20002	Pa.	Mifflin	Belleville	40.51161	-77.6285061	PA Tract 377	Trenton Limestone	Upper Ordovician	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
037-073-90004	4,517-4,672, 4,717-4,737	72.3												n/a	n/a	Pyrite—euohedral; trace sphalerite(?).
037-079-90000	4,800-4,906	223.8												3.5	4	
037-081-90006	7,364-7,390	111.6	3.07	0.8	0.96	0.7	365	31	23	0.5	2.54		10	n/a	n/a	n/a
037-081-90006	6,212-6,258, 7,410-7,420	113.6												n/a	n/a	Pyrite—euohedral, finely crystalline, replaced fossils (echinoderm, spines and rods); trace sphalerite.
037-083-31744	5,030-5,090	100.2	2.86	1	1.79	0.43	454	63	15	0.4	1.37		6	n/a	n/a	n/a
037-083-22529	9,050-9,480	50.8												2.5	3	
037-083-33511	9,400-9,580	220.1												2.5	3	Pyrite—euohedral, finely crystalline, rare; rare sphalerite; two silicified ostracodes; phosphatic tube.
037-083-37291	5,213	201.9												2.5	2.5	Pyrite—finely crystalline, euohedral, spheroidal, replaced fossils (rods or tubes, gastropods); common sphalerite; silica spines.
037-083-90004	3,935-3,955, 4,460-4,469	114.8												n/a	n/a	Pyrite—finely crystalline, euohedral, replaced fossils (rods and spines); silica rods and spines.
037-085-20004	6,844	159.5												1	1.5	Pyrite—euohedral, finely crystalline; trace sphalerite; phosphatic fossils—brachiopod fragments.
037-085-20036	3,840-4,000	101.4												1.5	2	Pyrite—finely crystalline, replaced fossils; glauconite—common, diagenetic; silica sponge spicules and bryozoan infillings; phosphatic bits.
037-085-22421	8,495-8,600	67												2	2.5	Pyrite—irregularly shaped and euohedral grains, sponge spicules; trace sphalerite; abraded brown mica; rare glauconite; phosphatic fossils—fish, sponge spicules, ostracode, bryozoan steinkerns, brachiopod fragments.
037-085-22421	9,019	16												2.5	2.5	Pyrite—irregularly shaped and euohedral grains, replaced bryozoans and scolecodont fragments; phosphatic fossil fragments.
037-085-22854	3,828-3,885	17.2												1.5	2	20 to 200 mesh cuttings picked; not acidized.
037-085-22854	3,990-4,045	32												1.5	2	20 to 200 mesh cuttings picked; not acidized.
037-085-22854	3,955-3,960		5.01	2.7	11.4	0.33	4.34	227	7	0.2				n/a	n/a	n/a
037-085-22854	3,960-3,965		3.36	2.1	6.79	0.5	4.36	202	15	0.2				n/a	n/a	n/a
037-085-90010	8,200-8,380	119.6												2	2	Pyrite—euohedral, finely crystalline, replaced fossils (spines, triaxon); unknown clear mineral; phosphatic bits.
037-087-20002	5,300-5,390	121.8												4	4	Pyrite—euohedral, finely crystalline; chlorite(?); silicified fossil fragments—brachiopods(?), ostracodes(?).

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037-097-90000	Pa.	Northumberland	Trevorton	40.8642947	-76.6800431	No. 1 Fox	Onondaga Limestone	Middle Devonian	Cuttings
037-097-90000	Pa.	Northumberland	Trevorton	40.8642947	-76.6800431	No. 1 Fox	Marcellus Shale	Middle Devonian	Cuttings
037-103-20001	Pa.	Pike	Shohola	41.4491664	-74.9246181	No. 1 Hess	Marcellus Shale	Middle Devonian	Cuttings
037-103-20003	Pa.	Pike	Hawley	41.4165281	-75.1415878	Texaco #C-1 State Forest	Onondaga Limestone	Middle Devonian	Cuttings
037-105-20182	Pa.	Potter	Tamarack	41.4892942	-77.7744533	No. 1 PA Tract 129	Marcellus Shale	Middle Devonian	Cuttings
037-105-20182	Pa.	Potter	Tamarack	41.4892942	-77.7744533	No. 1 PA Tract 129	Trenton Limestone	Upper Ordovician	Cuttings
037-105-20362	Pa.	Potter	Oleona	41.5186131	-77.6772556	#5 PA Tract 58	Helderberg Limestone	Lower Devonian	Cuttings
037-105-90052	Pa.	Potter	Brookland	41.8389239	-77.859145	Lewis	Tully Limestone	Middle Devonian	Cuttings
037-105-90155	Pa.	Potter	Coudersport	41.8455947	-78.0101619	Simpson	Tully Limestone	Middle Devonian	Cuttings
037-109-90000	Pa.	Snyder	Beavertown	40.8086258	-77.1578711	No. 1 Albert	Marcellus Shale	Middle Devonian	Cuttings
037-109-90000	Pa.	Snyder	Beavertown	40.8086258	-77.1578711	No. 1 Albert	Onondaga Limestone	Middle Devonian	Cuttings
037-111-20001	Pa.	Somerset	Boswell	40.2219936	-79.0401058	No. 2 Williams	Marcellus Shale	Middle Devonian	Cuttings
037-111-20002	Pa.	Somerset	Grantsville	39.7354478	-79.1887111	Bender	Onondaga Limestone	Middle Devonian	Cuttings
037-111-20045	Pa.	Somerset	Kingwood	39.9777642	-79.3338683	Svetz	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
037-113-20002	Pa.	Sullivan	Elk Grove	41.3546903	-76.4688958	Dieffenbach	Trenton Limestone	Upper Ordovician	Cuttings
037-113-90000	Pa.	Sullivan	Sonestown	41.3520822	-76.5158431	No. 1 Bennett	Marcellus Shale	Middle Devonian	Core
037-113-90000	Pa.	Sullivan	Sonestown	41.3520822	-76.5158431	No. 1 Bennett	Onondaga Limestone	Middle Devonian	Core
037-115-20006	Pa.	Susquehanna	Harford	41.7776664	-75.6978283	No. 1 Peace	Marcellus Shale	Middle Devonian	Cuttings
037-117-20056	Pa.	Tioga	Antrim	41.6293433	-77.2986161	S & S Coal Company	Tully Limestone	Middle Devonian	Cuttings
037-117-20057	Pa.	Tioga	Marshlands	41.6893972	-77.546975	No. 1 Dewey	Marcellus Shale	Middle Devonian	Cuttings

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037-097-90000	1,062-1,114	112.8												4	4	Pyrite—euhedral, finely crystalline, replaced fossils (rods and spines, tubes); sphalerite; unknown clear grains; silica sponge spicules; phosphatic brachiopods.
037-097-90000	995-1,049	117.8	6.2	1.2	0.47	0.81	416	8	13	0.7	0.95		8	n/a	n/a	n/a
037-103-20001	6,310-6,428	108.3	1.16	0.4	0.51	0.32	392	44	28	0.5	nd		nd	n/a	n/a	n/a
037-103-20003	8,040-8,160													3.5	4	
037-105-20182	6,250-6,345	100.3	3.43	0.4	0.35	0.51	345	10	15	0.6	0.88		5	n/a	n/a	n/a
037-105-20182	13,600-13,695	120												4.5	4.5	Pyrite—euhedral, finely crystalline, replaced fossils; trace garnet(?); sphalerite.
037-105-20362	6,688-6,690	127.8												n/a	n/a	Chlorite; fluorite; unknown clear glassy mineral; pink zircons.
037-105-90052	4,382-4,436	112.5												n/a	n/a	Pyrite—finely crystalline, replaced fossils (rods), framboidal, euhedral; sphalerite; pale-green pyroxene(?); silica spine; shell fragments.
037-105-90155	4,908-4,941	121.5												3	3	Pyrite—euhedral, finely crystalline, framboidal, replaced fossils (spines and rods, bivalves); trace barite(?); trace sphalerite; silica spines.
037-109-90000	1,274-1,342	113.1	4.76	1	1.15	0.78	349	24	16	0.5	1.32		26	n/a	n/a	n/a
037-109-90000	1,355-1,415	115.6												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils (spines and rods); common sphalerite; barite(?); silica fossil bits.
037-111-20001	7,900-7,963	118.3	5.07	1.3	1.39	0.79	371	27	16	0.5	nd		nd	n/a	n/a	n/a
037-111-20002	8,305-8,333	103.6												n/a	n/a	Pyrite—euhedral, finely crystalline, replaced fossils; sphalerite.
037-111-20045	15,400-15,900	49.1												5	5	Pyrite—euhedral, finely crystalline, replaced fossils (trilobite fragment, bryozoan fragments); silicified ostracodes; phosphatic bryozoan fragments; sample published in Ryder and others (1992).
037-113-20002	16,470-16,610	119.3												5	5	Pyrite—euhedral, finely crystalline, framboidal, replaced fossils (bivalve); sphalerite(?); chlorite(?); silica(?) spines; phosphatic fossils—brachiopods and fish fragments.
037-113-90000	8,364	298.3	3.41	1.3	0.86	0.39	377	25	11	0.6	0.46		50	n/a	n/a	n/a
037-113-90000	8,375	164												4.5	5	Pyrite—euhedral, finely crystalline, replaced fossils, spheroidal; sphalerite.
037-115-20006	6,600-6,650	117.6	1.76	0.5	0.2	0.36	407	11	20	0.7	0.51		50	n/a	n/a	
037-117-20056	6,250-6,320	120.8												4	4.5	Pyrite—finely crystalline, replaced fossils (rods or tubes); unknown clear mineral; silica spines.
037-117-20057	5,540-5,630	104.5	4.68	1.8	2.61	1.14	400	56	24	0.4	0.58		50	n/a	n/a	n/a

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037-117-20057	Pa.	Tioga	Marshlands	41.6893972	-77.546975	No. 1 Dewey	Trenton Limestone	Upper Ordovician	Cuttings
037-119-90000	Pa.	Union	Lewisburg	40.8973561	-76.9756589	Solomon	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
037-121-22642	Pa.	Venango	Franklin	41.4141953	-79.8093475	No. 348 Grant Fee	Marcellus Shale	Middle Devonian	Cuttings
037-121-90000	Pa.	Venango	Sugar Lake	41.5598639	-79.9085594	Van Camp	Onondaga Limestone	Middle Devonian	Cuttings
037-123-20150	Pa.	Warren	Cobham	41.6538997	-79.3691919	Shaw	Onondaga Limestone	Middle Devonian	Cuttings
037-123-20150	Pa.	Warren	Cobham	41.6538997	-79.3691919	Shaw	Trenton Limestone	Upper Ordovician	Cuttings
037-123-20609	Pa.	Warren	Russell	41.9533883	-79.2012222	Marsh Childs	Trenton Limestone	Upper Ordovician	Cuttings
037-123-24704	Pa.	Warren	Columbus	41.9205997	-79.5526892	No. 1 Christensen	Marcellus Shale	Middle Devonian	Cuttings
037-123-90002	Pa.	Warren	Youngsville	41.8552397	-79.2694536	No. 1 Keester	Marcellus Shale	Middle Devonian	Cuttings
037-123-90002	Pa.	Warren	Youngsville	41.8552397	-79.2694536	No. 1 Keester	Onondaga Limestone	Middle Devonian	Cuttings
037-125-20070	Pa.	Washington	Amity	40.0981075	-80.1430933	No. 1 Connor	Marcellus Shale	Middle Devonian	Cuttings
037-125-90076	Pa.	Washington	Midway	40.2719133	-80.2924406	McBurney	Tully Limestone	Middle Devonian	Cuttings
037-127-20005	Pa.	Wayne	Galilee	41.6821242	-75.18076	No. 1 Rodolfy	Marcellus Shale	Middle Devonian	Cuttings
037-129-90046	Pa.	Westmoreland	Derry	40.34206	-79.2571744	#3 Giffin	Tully Limestone	Middle Devonian	Cuttings
037-131-90000	Pa.	Wyoming	Meshoppen	41.5586272	-76.0807608	No. 1 Sheehan	Tully Limestone	Middle Devonian	Cuttings
037-131-90000	Pa.	Wyoming	Meshoppen	41.5586272	-76.0807608	No. 1 Sheehan	Marcellus Shale	Middle Devonian	Cuttings
(Canada)	Ont.	n/a	n/a	42.6672778	-79.6492528	40-X-3a	Trenton Limestone	Upper Ordovician	Cuttings
45-017-20031	Va.	Bath	Green Valley	38.0698743	-79.6222472	Lawrence, John L.	Onondaga Limestone	Middle Devonian	Cuttings
45-017-20031	Va.	Bath	Green Valley	38.0698743	-79.6222472	Lawrence, John L.	Helderberg Limestone	Lower Devonian	Cuttings
45-017-20031	Va.	Bath	Green Valley	38.0698743	-79.6222472	Lawrence, John L.	Millboro Shale	Middle/Upper Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Licking Creek Limestone	Lower Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	New Creek Limestone	Lower Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Millboro Shale (lower)	Middle/Upper Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Millboro Shale (middle)	Middle/Upper Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Millboro Shale (upper)	Middle/Upper Devonian	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Trenton Limestone	Upper Ordovician	Cuttings

Table 1

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
037-117-20057	11,880-12,020	118.4												4.5	4.5	Pyrite—euohedral, finely crystalline, replaced fossils; phosphatic fossils—fish fragments, brachiopods, echinoderms, steinkerns; silicified corals.
037-119-90000	5,951-6,273	119.7												n/a	n/a	Pyrite—finely crystalline, euohedral, framboidal, replaced fossils; sphalerite.
037-121-22642	4,320-4,350	110.5	4.6	3.8	7.48	0.43	436	163	9	0.3	0.47		52	n/a	n/a	n/a
037-121-90000	3,951-4,022	113.4												n/a	n/a	Pyrite—euohedral, finely crystalline, replaced fossils (rod or spine); yellow sphalerite or fluorite.
037-123-20150	4,459-4,508	101												2.5	3	Pyrite—finely crystalline, euohedral, spheroids; sphalerite; barite(?).
037-123-20150	8,333-8,452	118.9												2.5	3	Pyrite—euohedral, finely crystalline, replaced fossils; chlorite(?); phosphatic fossils—fish fragments, brachiopods, bryozoans, gastropods.
037-123-20609	7,020-7,360	118.5												2	2.5	Pyrite—euohedral, finely crystalline, framboidal; sphalerite; phosphatic fossils—bryozoans, brachiopods, echinoderms, fish fragments(?).
037-123-24704	3,170-3,230	117.5	1.92	1.3	4.36	0.43	438	227	22	0.2	1.06		3	n/a	n/a	n/a
037-123-90002	3,393-3,474		3.99	2.3	6.51	0.56	437	163	14	0.3	nd		nd	n/a	n/a	n/a
037-123-90002	3,474-3,595	107.4												2	2	Pyrite—finely crystalline, replaced fossils (snail fragment, spines); barite(?); sphalerite; glauconite.
037-125-20070	7,450-7,500	112.1	3.35	1.7	1.8	0.57	374	54	17	0.5	1.49		13	n/a	n/a	n/a
037-125-90076	6,198-6,253	102.2												2	2	Pyrite—finely crystalline, euohedral, replaced fossils (rods and spines), spheroids; clear barite or fluorite; phosphatic rods or fillings; silica sponge spicules.
037-127-20005	7,880-7,900	120.7	1.86	0.5	0.29	0.43	354	16	23	0.6	nd		nd	n/a	n/a	n/a
037-129-90046	6,332-6,378	111.8												n/a	n/a	Pyrite—euohedral, finely crystalline, replaced fossils (spines); unknown clear grains; phosphatic brachiopod shard.
037-131-90000	5,880-5,948	118												n/a	n/a	Pyrite—finely crystalline, euohedral, replaced fossils (echinoderm, spines and rods), framboidal; barite; phosphatic brachiopods.
037-131-90000	6,650-6,726	116.4	0.42	0.3	0.08	0.2	354	19	48	0.8	3		49	n/a	n/a	n/a
(Canada)	3,018-3,074 (920-937 m)	500												1	1.5	Canadian sample from Lake Erie; no API number or quadrangle name provided.
45-017-20031	114-217															
45-017-20031	338-405															
45-017-20031	35-42		1.52	0.7	0.4	0.31	346	26	20	0.6	2.77		20			
45-023-20439	2,200-2,280															
45-023-20439	2,320-2,350															
45-023-20439	2,100-2,110		0.84	0.3	0.15	0.15	337	18	18	0.6	2.22		26			
45-023-20439	1,940-1,970		0.44	0.1	0.09	0.1	359	20	23	0.5	2.25		32			
45-023-20439	1,580-1,670		0.45	0.1	0.07	0.09	384	16	20	0.5	2.19		30			
45-023-20439	4,350-4,450															

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-023-20439	Va.	Botetourt	Eagle Rock	37.6931684	-79.7796736	Tredegar Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-027-19896	Va.	Buchanan	Keen Mountain	37.2423289	-81.9481427	C. L. Ritter Lumber Co.	Devonian shale	Devonian	Cuttings
45-027-19896	Va.	Buchanan	Keen Mountain	37.2423289	-81.9481427	C. L. Ritter Lumber Co.	Devonian shale	Devonian	Cuttings
45-027-19896	Va.	Buchanan	Keen Mountain	37.2423289	-81.9481427	C. L. Ritter Lumber Co.	Wildcat Valley Sandstone	Lower Devonian	Cuttings
45-027-20108	Va.	Buchanan	Vansant	37.1365813	-82.0761924	Wyatt, Landon R. et al.	Devonian shale	Devonian	Cuttings
45-027-20108	Va.	Buchanan	Vansant	37.1365813	-82.0761924	Wyatt, Landon R. et al.	Devonian shale	Devonian	Cuttings
45-027-20108	Va.	Buchanan	Vansant	37.1365813	-82.0761924	Wyatt, Landon R. et al.	Sunbury Shale	Lower Mississippian	Cuttings
45-027-20147	Va.	Buchanan	Prater	37.2470224	-82.1859005	The Pittston Co.	Devonian shale	Devonian	Cuttings
45-027-20147	Va.	Buchanan	Prater	37.2470224	-82.1859005	The Pittston Co.	Devonian shale	Devonian	Cuttings
45-027-20147	Va.	Buchanan	Prater	37.2470224	-82.1859005	The Pittston Co.	Sunbury Shale	Lower Mississippian	Cuttings
45-027-20147	Va.	Buchanan	Prater	37.2470224	-82.1859005	The Pittston Co.	Wildcat Valley Sandstone	Lower Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Devonian shale	Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Devonian shale	Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Devonian shale	Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Devonian shale	Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Devonian shale	Devonian	Cuttings
45-027-20381	Va.	Buchanan	Panther	37.4149437	-81.9933272	Buchanan Energy Corp	Sunbury Shale	Lower Mississippian	Cuttings
45-045-20804	Va.	Craig	Potts Creek	37.5502228	-80.2254255	I. Smith	Trenton Limestone	Upper Ordovician	Cuttings
45-045-20804	Va.	Craig	Potts Creek	37.5502228	-80.2254255	I. Smith	Trenton Limestone	Upper Ordovician	Cuttings
45-045-20804	Va.	Craig	Potts Creek	37.5502228	-80.2254255	I. Smith	Trenton Limestone	Upper Ordovician	Cuttings
45-051-20238	Va.	Dickenson	Elkhorn City	37.2784137	-82.2589207	Mullins Heirs, Bruce	Onondaga Limestone	Middle Devonian	Cuttings
45-051-20238	Va.	Dickenson	Elkhorn City	37.2784137	-82.2589207	Mullins Heirs, Bruce	Rhinestreet Shale	Upper Devonian	Cuttings
45-051-20238	Va.	Dickenson	Elkhorn City	37.2784137	-82.2589207	Mullins Heirs, Bruce	Lower Huron Mbr of Ohio Sh	Upper Devonian	Cuttings
45-051-20238	Va.	Dickenson	Elkhorn City	37.2784137	-82.2589207	Mullins Heirs, Bruce	Trenton Limestone	Upper Ordovician	Cuttings
45-051-20238	Va.	Dickenson	Elkhorn City	37.2784137	-82.2589207	Mullins Heirs, Bruce	Trenton Limestone	Upper Ordovician	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Devonian shale	Devonian	Cuttings
45-051-20281	Va.	Dickenson	Haysi	37.1409714	-82.331058	Stanley, W.D.	Sunbury Shale	Lower Mississippian	Cuttings
45-051-20421	Va.	Dickenson	Caney Ridge	37.0582203	-82.3974068	Smith, P.R.	Devonian shale	Devonian	Cuttings
45-051-20421	Va.	Dickenson	Caney Ridge	37.0582203	-82.3974068	Smith, P.R.	Devonian shale	Devonian	Cuttings
45-051-20421	Va.	Dickenson	Caney Ridge	37.0582203	-82.3974068	Smith, P.R.	Sunbury Shale	Lower Mississippian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Tully Limestone (repeated)	Middle Devonian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Tully Limestone	Middle Devonian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Helderberg Limestone	Lower Devonian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Millboro Shale (upper)	Middle/Upper Devonian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Millboro Shale (middle)	Middle/Upper Devonian	Cuttings
45-091-20036	Va.	Highland	Palo Alto	38.4139796	-79.3397341	Smith, Bertha	Millboro Shale (lower)	Middle/Upper Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
45-023-20439	4,700-4,800															
45-023-20439	4,990-5,090															
45-023-20439	5,150-5,250															
45-023-20439	5,490-5,600															
45-027-19896	6,500-6,636		0.82	0.4	0.07	0.24	337	9	29	0.8	1.29		21			
45-027-19896	6,960-7,135		2.37	0.9	0.32	0.26	335	14	11	0.7	1.31		8			
45-027-19896	7,135-7,282															
45-027-20108	6,080-6,090		4.4	1.1	0.54	0.5	329	12	11	0.7	1.61		31			
45-027-20108	6,530-6,540		1.49	0.5	0.35	0.23	369	23	15	0.6	1.91		15			
45-027-20108	4,820-4,850		1.15	0.2	0.31	0.28	424	27	24	0.4	1.29		18			
45-027-20147	5,320-5,340		2.15	4	4.85	0.67	409	226	31	0.5	1.76		30			
45-027-20147	5,790-5,800		1.79	0.7	0.32	0.26	396	18	15	0.7	1.75		6			
45-027-20147	4,340-4,370		3.72	0.6	0.5	0.63	445	13	17	0.5	1.72		26			
45-027-20147	5,920-5,980															
45-027-20381	4,070-4,250		0.71	0.5	0.77	0.35	371	108	49	0.4	1.11		30			
45-027-20381	4,250-4,520		0.75	0.4	0.59	0.35	363	79	47	0.4	1.1		26			
45-027-20381	4,700-4,940		0.42	0.2	0.26	0.36	421	62	86	0.4	1.14		24			
45-027-20381	5,090-5,270		1.3	0.9	0.53	0.46	363	41	35	0.6	1.19		26			
45-027-20381	5,270-5,480		0.2	0.4	0.16	0.37	387	80	185	0.7	1.34		16			
45-027-20381	3,880-3,950		1.44	1.4	0.43	0.45	329	30	31	0.8	1.38		33			
45-045-20804	490-920															
45-045-20804	920-1,080															
45-045-20804	1,080-1,400															
45-051-20238	5,570-5,610															
45-051-20238	5,510-5,530		1.82	0.5	0.24	0.26	402	13	14	0.7	1.37		25			
45-051-20238	4,890-4,910		1.71	0.4	0.16	0.32	430	9	19	0.7	1.27		27			
45-051-20238	7,220-7,400															
45-051-20238	7,520-7,730															
45-051-20281	4,650-4,680		0.34	0.2	0.09	0.2	416	26	59	0.7	1.92		26			
45-051-20281	4,840-4,870		0.36	0.1	0.03	0.16	352	8	44	0.7	1.85		34			
45-051-20281	4,960-4,990		0.32	0	0.04	0.21	458	13	66	0.5	1.99		47			
45-051-20281	5,090-5,120		0.27	0.2	0.07	0.3	351	26	111	0.7	1.92		33			
45-051-20281	5,230-5,260		0.32	0.2	0.04	0.19	2	13	59	0.8	1.95		26			
45-051-20281	5,320-5,360		1.46	0.5	0.19	0.25	359	13	17	0.7	2		48			
45-051-20281	5,470-5,500		2.59	0.5	0.38	0.32	394	15	12	0.6	1.9		29			
45-051-20281	4,350-4,380		2.87	0.6	0.2	0.41	490	7	14	0.8	1.37		20			
45-051-20421	4,840-4,960		0.92	0.6	0.21	0.21	346	23	23	0.7	1.42		29			
45-051-20421	5,380-5,560		1.38	0.7	0.24	0.31	2	17	22	0.7	1.46		22			
45-051-20421	4,350-4,380		0.13	0.2	0.19	0.19	301	146	146	0.5	1.87		32			
45-091-20036	2,000-2,100															
45-091-20036	2,570-2,655															
45-091-20036	3,920-3,955															
45-091-20036	2,700-2,760		0.53	0.1	0.21	0.14	354	40	26	0.4	2.86		25			
45-091-20036	3,200-3,230		3.09	0.6	0.57	0.28	346	18	9	0.5	3.02		19			
45-091-20036	3,500-3,560		3.27	0.5	0.45	0.24	342	12	6	0.5	2.91		29			

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
45-105-19711	Va.	Lee	Rose Hill	36.6436394	-83.373138	Frye, Charles	Trenton Limestone	Upper Ordovician	Cuttings
45-105-19756	Va.	Lee	Rose Hill	36.6858744	-83.2685634	Ely Estate, Anthony	Trenton Limestone	Upper Ordovician	Cuttings
45-105-19756	Va.	Lee	Rose Hill	36.6858744	-83.2685634	Ely Estate, Anthony	Trenton Limestone	Upper Ordovician	Cuttings
45-105-19790	Va.	Lee	Ben Hur	36.716953	-83.0769788	Wynn Tract, Browing	Trenton Limestone	Upper Ordovician	Cuttings
45-105-19790	Va.	Lee	Ben Hur	36.716953	-83.0769788	Wynn Tract, Browing	Trenton Limestone	Upper Ordovician	Cuttings
45-105-20001	Va.	Lee	Back Valley	36.6171508	-83.3540889	Bales, L.S.	Trenton Limestone	Upper Ordovician	Cuttings
45-105-20001	Va.	Lee	Back Valley	36.6171508	-83.3540889	Bales, L.S.	Trenton Limestone	Upper Ordovician	Cuttings
45-105-20416	Va.	Lee	Big Stone Gap	36.7915564	-82.8488174	Slemp, W. Campbell	Trenton Limestone	Upper Ordovician	Cuttings
45-105-20416	Va.	Lee	Big Stone Gap	36.7915564	-82.8488174	Slemp, W. Campbell	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Devonian shale	Devonian	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Core
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-121-19707	Va.	Montgomery	Blacksburg	37.1868141	-80.4605258	Kipps Anthracite Coal Co.	Trenton Limestone	Upper Ordovician	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Tully Limestone	Middle Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Needmore Shale	Middle Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Helderberg Limestone	Lower Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Millboro Shale	Upper Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Millboro Shale	Middle Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Millboro Shale	Middle Devonian	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Trenton Limestone	Upper Ordovician	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Utica Shale	Upper Ordovician	Cuttings
45-165-20007	Va.	Rockingham	Bergton	38.7638064	-78.9561173	Whetzel, R.J.	Utica Shale	Upper Ordovician	Cuttings
45-167-20256	Va.	Russell	Hansonville	36.8724814	-82.237308	Price, W. Russell	Onondaga Limestone	Middle Devonian	Cuttings
45-167-20256	Va.	Russell	Hansonville	36.8724814	-82.237308	Price, W. Russell	Keyser Limestone	Lower Devonian	Cuttings
45-167-20256	Va.	Russell	Hansonville	36.8724814	-82.237308	Price, W. Russell	Millboro Shale	Middle/Upper Devonian	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Trenton Limestone	Upper Ordovician	Cuttings
45-169-19679	Va.	Scott	Duffield	36.7082948	-82.8096143	Harris, A.H.	Trenton Limestone	Upper Ordovician	Cuttings
45-169-19680	Va.	Scott	Mendota	36.6491482	-82.3179449	Smith, E.D.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19680	Va.	Scott	Mendota	36.6491482	-82.3179449	Smith, E.D.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19680	Va.	Scott	Mendota	36.6491482	-82.3179449	Smith, E.D.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-169-19680	Va.	Scott	Mendota	36.6491482	-82.3179449	Smith, E.D.	Chattanooga Sh-Millboro Sh	Middle/Upper Devonian	Cuttings
45-191-20236	Va.	Washington	Glade Spring	36.841563	-81.8191705	Morton Salt Co.	Chattanooga Shale	Upper Devonian	Cuttings
45-191-20236	Va.	Washington	Glade Spring	36.841563	-81.8191705	Morton Salt Co.	Mississippian shale	Mississippian	Cuttings
45-191-20592	Va.	Washington	Wyndale	36.7256649	-82.1013406	McCroskey, R.M.	Devonian shale	Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
45-105-19711	1,574-1,687															
45-105-19756	2,399-2,455															
45-105-19756	2,455-2,532															
45-105-19790	1,691-1,839															
45-105-19790	1,847-2,000															
45-105-20001	1,200-1,500															
45-105-20001	1,630-1,890															
45-105-20416	1,090-1,340															
45-105-20416	1,350-1,650															
45-121-19707	3,600-3,800		0.11	0.1	0.11	0.21	301	100	191	0.5	2.31		15			
45-121-19707	4,000-4,200		0.11	0.1	0.1	0.11	321	91	100	0.5	2.36		21			
45-121-19707	4,400-4,600		0.1	0.1	0.03	0.29	-1	30	290	0.6	2.5		22			
45-121-19707	4,700-4,900		0.11	0.1	0.06	0.12	301	55	109	0.6	2.58		24			
45-121-19707	5,000-5,200		0.25	0.3	0.23	0.25	343	92	100	0.6	2.67		19			
45-121-19707	5,200-5,400		1.99	0.8	0.22	0.25	332	11	13	0.8	2.66		25			
45-121-19707	7,356-7,448															
45-121-19707	7,800-8,000															
45-121-19707	8,200-8,400															
45-121-19707	8,500-8,700															
45-121-19707	8,800-8,900															
45-165-20007	2,410-2,440															
45-165-20007	3,160-3,170		2.43	1.4	0.71	0.33	345	29	14	0.7	2.45		17			
45-165-20007	3,600-3,900															
45-165-20007	2,100-2,180		0.45	0.1	0.14	0.09	349	31	20	0.3	2.78		40			
45-165-20007	2,500-2,580		0.61	0.1	0.05	0.15	300	8	25	0.7	2.71		40			
45-165-20007	2,900-2,960		0.54	0.2	0.2	0.18	340	37	33	0.4	2.89		40			
45-165-20007	8,200-8,500															
45-165-20007	7,900-7,940		0.59	0.3	0.14	0.15	338	24	25	0.7						
45-165-20007	8,000-8,040		0.41	0.1	0.08	0.13	313	20	32	0.6						
45-167-20256	8,050-8,120															
45-167-20256	8,180-8,250															
45-167-20256	8,000-8,020		1.34	0.2	0.27	0.24	454	20	18	0.4	1.85		17			
45-169-19679	320-340		5.07	2	14.6	0.43	437	288	8	0.1	0.6		46			
45-169-19679	440-460		2.63	2.1	7.48	0.59	431	284	22	0.2	0.6		52			
45-169-19679	520-540		0.81	0.9	0.92	0.23	439	114	28	0.5	0.62		37			
45-169-19679	680-700		1.95	1.6	5.6	0.36	439	287	18	0.2	0.66		49			
45-169-19679	2,480-2,605															
45-169-19679	2,605-2,706															
45-169-19680	6,200-6,300		0.62	0.1	0.2	0.22	462	32	35	0.4	1.93		31			
45-169-19680	6,300-6,400		0.45	0.1	0.07	0.21	436	16	47	0.6	1.91		30			
45-169-19680	6,400-6,500		0.54	0.1	0.03	0.22	385	6	41	0.7	1.98		39			
45-169-19680	6,500-6,600		1.84	0.3	0.23	0.37	446	13	20	0.6	1.97		40			
45-191-20236	5,440-5,450		0.13	0.3	0.16	0.16	345	123	123	0.7	1.41		21			
45-191-20236	4,140-4,200										1.22		45			
45-191-20592	8,720-8,730		0.18	0.3	0.18	0.31	339	100	172	0.6	1.49		22			

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
45-191-20592	Va.	Washington	Wyndale	36.7256649	-82.1013406	McCroskey, R.M.	Devonian shale	Devonian	Cuttings
45-191-20592	Va.	Washington	Wyndale	36.7256649	-82.1013406	McCroskey, R.M.	Devonian shale	Devonian	Cuttings
45-191-20592	Va.	Washington	Wyndale	36.7256649	-82.1013406	McCroskey, R.M.	Devonian shale	Devonian	Cuttings
45-195-19623	Va.	Wise	East Stone Gap	36.8623661	-82.7283318	Osborne, W.B	Trenton Limestone	Upper Ordovician	Cuttings
45-195-19623	Va.	Wise	East Stone Gap	36.8623661	-82.7283318	Osborne, W.B	Trenton Limestone	Upper Ordovician	Cuttings
45-195-20178	Va.	Wise	Wise	36.8954077	-82.5664077	Penn Virginia Resources	Wildcat Valley Sandstone	Lower Devonian	Cuttings
45-195-20178	Va.	Wise	Wise	36.8954077	-82.5664077	Penn Virginia Resources	Devonian shale	Devonian	Cuttings
45-195-20178	Va.	Wise	Wise	36.8954077	-82.5664077	Penn Virginia Resources	Devonian shale	Devonian	Cuttings
45-195-20178	Va.	Wise	Wise	36.8954077	-82.5664077	Penn Virginia Resources	Sunbury Shale	Lower Mississippian	Cuttings
45-195-20179	Va.	Wise	Appalachia	36.9477321	-82.8502609	Penn Virginia Resources	Devonian shale	Devonian	Cuttings
45-195-20179	Va.	Wise	Appalachia	36.9477321	-82.8502609	Penn Virginia Resources	Devonian shale	Devonian	Cuttings
47-005-00612	W. Va.	Boone	Madison	38.11417	-81.829446	No. 41 Allen & Pryor (675)	Rhinestreet Sh-Marcellus Sh	Upper/Middle Devonian	Cuttings
47-005-00612	W. Va.	Boone	Madison	38.11417	-81.829446	No. 41 Allen & Pryor (675)	Onondaga Limestone	Middle Devonian	Cuttings
47-005-00612	W. Va.	Boone	Madison	38.11417	-81.829446	No. 41 Allen & Pryor (675)	Helderberg Limestone	Lower Devonian	Cuttings
47-007-00226	W. Va.	Braxton	Gassaway	38.684441	-80.8275	No. 1 E.L. Boggs (8989)	Marcellus Shale	Middle Devonian	Cuttings
47-007-00226	W. Va.	Braxton	Gassaway	38.684441	-80.8275	No. 1 E.L. Boggs (8989)	Onondaga Limestone	Middle Devonian	Cuttings
47-011-00537	W. Va.	Cabell	Athalia	38.523887	-82.263055	No. 1 E. Kingery	Rhinestreet Shale	Upper Devonian	Cuttings
47-011-00537	W. Va.	Cabell	Athalia	38.523887	-82.263055	No. 1 E. Kingery	Helderberg Limestone	Lower Devonian	Cuttings
47-011-00537	W. Va.	Cabell	Athalia	38.523887	-82.263055	No. 1 E. Kingery	Trenton Limestone	Upper Ordovician	Cuttings
47-015-00513	W. Va.	Clay	Clendenin	38.453054	-81.263886	United Fuel Gas (8000-T)	Marcellus Shale	Middle Devonian	Cuttings
47-015-00513	W. Va.	Clay	Clendenin	38.453054	-81.263886	United Fuel Gas (8000-T)	Onondaga Limestone	Middle Devonian	Cuttings
47-015-00513	W. Va.	Clay	Clendenin	38.453054	-81.263886	United Fuel Gas (8000-T)	Helderberg Limestone	Lower Devonian	Cuttings
47-017-00071	W. Va.	Doddridge	West Union	39.27445	-80.760834	No. F-11 Maxwell (GW-43)	Rhinestreet Sh-Marcellus Sh	Upper/Middle Devonian	Cuttings
47-017-00071	W. Va.	Doddridge	West Union	39.27445	-80.760834	No. F-11 Maxwell(GW-43)	Onondaga Limestone	Middle Devonian	Cuttings
47-017-00071	W. Va.	Doddridge	West Union	39.27445	-80.760834	No. F-11 Maxwell (GW-43)	Helderberg Limestone	Lower Devonian	Cuttings
47-019-00042	W. Va.	Fayette	Winona	38.031109	-80.985276	Franklin Real (GW-796)	Marcellus Shale	Middle Devonian	Cuttings
47-019-00042	W. Va.	Fayette	Winona	38.031109	-80.985276	Franklin Real (GW-796)	Helderberg Limestone	Lower Devonian	Cuttings
47-019-00241	W. Va.	Fayette	Winona	38.113609	-80.985276	Nuttall Estate (2000-T)	Marcellus Shale	Middle Devonian	Cuttings
47-019-00241	W. Va.	Fayette	Winona	38.113609	-80.985276	Nuttall Estate (2000-T)	Helderberg Limestone	Lower Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _{o(mean)}	%R _{o(mean)} corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
45-191-20592	8,790-8,800		0.45	0.3	0.18	0.42	338	38	87	0.7	1.57		18			
45-191-20592	8,840-8,850		1.04	0.3	0.14	0.41	337	13	39	0.7	1.64		3			
45-191-20592	8,890-8,900		1.13	0.7	0.22	0.28	437	19	25	0.8	1.6		21			
45-195-19623	1,355-1,464															
45-195-19623	1,480-1,650															
45-195-20178	4,325-4,415															
45-195-20178	3,860-3,900		2.99	1.3	2.11	0.28	448	71	9	0.4	0.97		39			
45-195-20178	4,300-4,310		5.42	4.3	6.17	0.35	437	114	6	0.4	1.03		35			
45-195-20178	3,100-3,120		1.23	1.2	1.39	0.56	442	113	46	0.5	0.84		34			
45-195-20179	5,570-5,600		2.92	1.4	1.23	0.47	445	42	16	0.5	1.1		34			
45-195-20179	5,640-5,660		2.75	1.2	1.28	0.34	448	47	12	0.5	1.12		38			
47-005-00612	3,927-4,105		1.75	0.8	1.66	0.42	452	95	24	0.3	1.03		48			
47-005-00612	4,180-4,220															
47-005-00612	4,354-4,417													1.5	2	Pyrite—fine-grained, minor, euhedral; silt-sized dolomite.
47-007-00226	5,900-6,044		1.69	0.3	0.02	0.09	416	1	5	0.9	1.55		50			
47-007-00226	6,094-6,161													2	2	
47-011-00537	3,220-3,330		2.3	1.6	8.52	0.65	446	370	28	0.2	0.57		51			
47-011-00537	3,335-3,400													1	1.5	Pyrite—disseminated, euhedral, spherules or framboids; trace sphalerite(?) or barite(?); indeterminate phosphatic fossil fragments.
47-011-00537	5,620-5,780													1.5	1.5	
47-015-00513	5,402-5,593		1.43	0.5	0.69	0.12	452	48	8	0.4	1.38		50			
47-015-00513	5,603-5,714															
47-015-00513	5,850-6,100													2	2	Pyrite—fine-grained, framboids; euhedral barite or celestite; minor glauconite; yellow sphalerite; uncommon biotite.
47-017-00071	6,304-6,448		0.56	0.3	0.17	0.2	421	30	36	0.6	1.63		50			
47-017-00071	6,724-6,841													1.5	2	
47-017-00071	7,103-7,183													2	2	Pyrite—fine-grained, framboids, spheres; sphalerite—pale-yellow, abraded; phosphatic shell fragments; zircons(?)—pink, abraded; rare unknown mineral grains—clear, light-green, glassy, abraded.
47-019-00042	6,953-7,057		1.68	0.2	0.08	0.36	330	5	21	0.7	2.34		48			
47-019-00042	7,239-7,316													3.5	3.5	Pyrite—fine-grained, framboids, replaced fossils (spines and rods); pale-yellow sphalerite; zircons—pink, abraded; clear fluorite(?); phosphatic shell fragments—abraded, steinkerns (bryozoan zoecia).
47-019-00241	6,630-7,030		1.61	0.4	0.58	0.33	368	36	20	0.4	2.22		49			n/a
47-019-00241	7,200-7,400															Pyrite—fine-grained, euhedral, replaced fossils (rare); phosphatic irregular blebs; pale-colored abraded hyaline grains; abraded shell fragments; shiny black metallic spheres (uncommon); yellow and orange-yellow sphalerite; zircons—pink, rare.

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
47-023-00002	W. Va.	Grant	Greenland Gap	39.194721	-79.14167	Greenland Lodge (10768)	Trenton Limestone	Upper Ordovician	Cuttings
n/a	W. Va.	Grant	Petersburg West	38.973333	-79.125833	n/a	Landes Limestone	Middle Devonian	Outcrop
47-025-00002	W. Va.	Greenbrier	Williamsburg	37.944442	-80.489723	No. 1 G.R. Dean	Marcellus Shale	Middle Devonian	Cuttings
47-025-00002	W. Va.	Greenbrier	Williamsburg	37.944442	-80.489723	No. 1 G.R. Dean	Helderberg Limestone	Lower Devonian	Cuttings
47-025-00004	W. Va.	Greenbrier	Rucker Gap	37.981385	-80.119164	No. 1 J.M. VanBuren Heirs	Marcellus Shale	Middle Devonian	Cuttings
47-025-00004	W. Va.	Greenbrier	Rucker Gap	37.981385	-80.119164	No. 1 J.M. VanBuren Heirs	Helderberg Limestone	Lower Devonian	Cuttings
47-025-00013	W. Va.	Greenbrier	Glace	37.69361	-80.325836	No. 1 Damron (8926)	Marcellus Shale	Middle Devonian	Cuttings
47-025-00013	W. Va.	Greenbrier	Glace	37.69361	-80.325836	No. 1 Damron (8926)	Helderberg Limestone	Lower Devonian	Cuttings
47-025-00022	W. Va.	Greenbrier	Quinwood	38.06	-80.733611	Columbia Gas (20059)	Hamilton Group	Middle Devonian	Cuttings
47-027-00012	W. Va.	Hampshire	Springfield	39.494444	-78.63666	O.B. & Ray Duckworth 1	Helderberg Limestone	Lower Devonian	Cuttings
47-029-00080	W. Va.	Hancock	East Liverpool S	40.539722	-80.556114	S Minesinger 1	Helderberg Limestone	Lower Devonian	Cuttings
47-029-00080	W. Va.	Hancock	East Liverpool S	40.539722	-80.556114	S Minesinger 1	Trenton Limestone	Upper Ordovician	Cuttings
47-031-00003	W. Va.	Hardy	Needmore	39.002774	-78.849999	Anna Baughman (9058-T)	Helderberg Limestone	Lower Devonian	Cuttings
47-031-00001	W. Va.	Hardy	Old Fields	39.181667	-78.945	No.1 Williams	Helderberg Limestone	Lower Devonian	Cuttings
47-033-00079	W. Va.	Harrison	Mount Clare	39.157775	-80.327225	C.S. Gribble (8517)	Marcellus Shale	Middle Devonian	Cuttings
47-033-00079	W. Va.	Harrison	Mount Clare	39.157775	-80.327225	C.S. Gribble (8517)	Helderberg Limestone	Lower Devonian	Cuttings
47-035-00615	W. Va.	Jackson	Cottageville	38.805835	-81.79583	No. 1 Nellie Sayre King	Rhinstreet Shale	Upper Devonian	Cuttings
47-035-01366	W. Va.	Jackson	Kentuck	38.729718	-81.572503	L Stalnaker 1 (also McCoy No. 1)	Helderberg Limestone	Lower Devonian	Cuttings
47-035-01366	W. Va.	Jackson	Kentuck	38.729718	-81.572503	L Stalnaker 1 (also McCoy No. 1)	Trenton Limestone	Upper Ordovician	Cuttings
47-039-00205	W. Va.	Kanawha	Big Chimney	38.427776	-81.557778	No.1 Robertson (GW-346)	Rhinstreet Shale	Upper Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-023-00002	5,100-5,110													4	4	Pyrite—fine-grained, euhedral, replaced fossils (gastropods, ostracodes, bivalves, indeterminate rods, shell fragments); irregular phosphatic grains; yellowish-orange sphalerite.
n/a	n/a													3	3	A.G. Harris (unpublished data).
47-025-00002	6,200-6,310		1.48	0.1	0	0.21		0	14	1	2.23		50			
47-025-00002	6,574-6,790													3.5	3.5	
47-025-00004	975-1,090		1.95	0.4	0.11	0.3	346	6	15	0.8	2.02		50			
47-025-00004	1,408-1,569													3	3	
47-025-00013	4,400-4,650		1.74	0.3	0.11	0.31	396	6	18	0.7	2.27		50			
47-025-00013	4,770-5,100													3.5	4	Pyrite—fine-grained, some euhedral, spheres, rare framboids; zircons—pink, rounded; sphalerite—light-yellow to yellow-brown, common; uncommon phosphatic shell fragments.
47-025-00022	7,050-8,266													3	3.5	A.G. Harris (unpublished data).
47-027-00012	670-810													3	3.5	
47-029-00080	4,940-5,170													2.5	2.5	Pyrite—fine-grained, 1/4- to 1/2-mm spheres, partially replaced fossils; phosphatic "pellets"; miscellaneous indeterminate fossil fragments; zircons—pink, abraded; rare glauconite; abraded, amber, glassy, sand-sized grains (conodonts?); barite or fluorite(?)—clear, rare.
47-029-00080	8,955-9,215													3	3	
47-031-00003	7,000-7,190													2.5	3	Pyrite—fine-grained, euhedral, framboids; blocky phosphate—probably fish bone or teeth fragments; rare diopside(?); unknown bright silvery-black metallic mineral.
47-031-00001	785-1,370													3.5	3.5	A.G. Harris (unpublished data).
47-033-00079	6,805-6,885		0.47	0	0	0.2		0	43	1	1.81		48			
47-033-00079	7,400-7,505													2.5	3	Pyrite—fine-grained, euhedral, framboids and framboid clusters, 1/4- to 1/2-mm spheres, replaced fossils (ostracodes, spines and rods); yellow sphalerite; phosphate grains and indeterminate fossil fragments.
47-035-00615	4,402-4,596		2.12	0.8	3.21	0.37	440	151	17	0.2	0.72		67			
47-035-01366	5,440-5,580													2	2.5	Pyrite—mostly fine-grained, fine euhedra (uncommon), framboids, fossil replacement; phosphatic fossils—rods, spicules, replaced shell fragments, steinkerns (brachiopods, bivalves, ostracodes).
47-035-01366	8,730-8,830													2.5	3	
47-039-00205	4,605-4,896		1.89	1.2	1.4	0.68	448	74	36	0.5	0.85		50			

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
47-039-00205	W. Va.	Kanawha	Big Chimney	38.427776	-81.557778	No.1 Robertson (GW-346)	Helderberg Limestone	Lower Devonian	Cuttings
47-039-03462	W. Va.	Kanawha	Mammoth	38.296669	-81.370835	Sally D. Todd (20659-T)	Rhinestreet Shale	Upper Devonian	Cuttings
47-039-03462	W. Va.	Kanawha	Mammoth	38.296669	-81.370835	Sally D. Todd (20659-T)	Onondaga Limestone	Middle Devonian	Cuttings
47-039-03462	W. Va.	Kanawha	Mammoth	38.296669	-81.370835	Sally D. Todd (20659-T)	Helderberg Limestone	Lower Devonian	Cuttings
47-039-03462	W. Va.	Kanawha	Mammoth	38.296669	-81.370835	Sally D. Todd (20659-T)	Trenton Limestone	Upper Ordovician	Cuttings
47-043-01637	W. Va.	Lincoln	Ranger	38.098889	-82.224442	Columbia Gas (20403)	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
47-043-01637	W. Va.	Lincoln	Ranger	38.098889	-82.224442	Columbia Gas (20403)	Onondaga Limestone	Middle Devonian	Core
47-043-01637	W. Va.	Lincoln	Ranger	38.098889	-82.224442	Columbia Gas (20403)	Onondaga Limestone	Middle Devonian	Core
47-043-01656	W. Va.	Lincoln	Ranger	38.096671	-82.240838	Columbia/McCoy (20402)	Lower Huron Mbr of Ohio Sh	Upper Devonian	Core
47-045-00287	W. Va.	Logan	Clothier	37.891391	-81.841667	Boone Co. Coal (9677)	Rhinestreet Shale	Upper Devonian	Cuttings
47-045-00287	W. Va.	Logan	Clothier	37.891391	-81.841667	Boone Co. Coal (9677)	Onondaga Limestone	Middle Devonian	Cuttings
47-045-000864	W. Va.	Logan	Henlawson	37.920828	-81.932221	C C Chambers 3	Helderberg Limestone	Lower Devonian	Cuttings
47-047-00031	W. Va.	McDowell	Gary	37.255282	-81.610833	New River & Poca (6219)	Marcellus Shale	Middle Devonian	Cuttings
47-047-00031	W. Va.	McDowell	Gary	37.255282	-81.610833	New River & Poca (6219)	Helderberg Limestone	Lower Devonian	Cuttings
47-049-00244	W. Va.	Marion	Fairmont East	39.431946	-80.012223	No. A-1 Finch	Tully Limestone	Middle Devonian	Cuttings
47-049-00244	W. Va.	Marion	Fairmont East	39.431946	-80.012223	No. A-1 Finch	Marcellus Shale	Middle Devonian	Cuttings
47-049-00244	W. Va.	Marion	Fairmont East	39.431946	-80.012223	No. A-1 Finch	Helderberg Limestone	Lower Devonian	Cuttings
47-049-00244	W. Va.	Marion	Fairmont East	39.431946	-80.012223	No. A-1 Finch	Trenton Limestone	Upper Ordovician	Cuttings
47-051-00221	W. Va.	Marshall	Businessburg	39.903613	-80.803055	No. 1 Ohio Valley S. Sa	Marcellus Shale	Middle Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-039-00205	5,101-5,242													1.5	2	Pyrite—euhedra, framboids (spherical clusters), fine-grained blebs, fossil replacement (bryozoans, spicules, ostracodes); phosphatic fossil fragments—probably mostly fish fragments; rare sphalerite(?); silicified fossils—sponge spicules, bryozoans.
47-039-03462	5,000-5,110		0.47	0	0.07	0.32	454	15	68	0.2	0.99		16			
47-039-03462	5,600-5,700													2	2.5	Pyrite—fine-grained, euhedral, spheres, replaced fossils (rods and spines, snail); pink zircons; yellow-brown and pale-yellow sphalerite; glauconite; phosphate grains, steinkerns, and replaced fossils (indeterminate fragments, spines, and so on).
47-039-03462	5,730-5,830													2	2.5	Pyrite—fine-grained, euhedral (minor), framboids, spheres; zircons—pink, abraded; phosphate grains and fossil fragments, replaced sponge spicules; pale-yellow sphalerite.
47-039-03462	8,780-8,890													3.5	3.5	
47-043-01637	3,614		5.13	3.5	14.2	0.34	447	276	7	0.2	0.56		50			
47-043-01637	4,031-4,032													1.5	2	A.G. Harris (unpublished data).
47-043-01637	4,051													1.5	2	A.G. Harris (unpublished data).
47-043-01656	3,542		6.36	4.2	22.2	0.4	448	350	6	0.2	0.51		51			
47-045-00287	4,901-5,169		1.6	0.6	0.69	0.45	472	43	28	0.5	1.31		50			
47-045-00287	5,189-5,275													2.5	3	Pyrite—fine-grained, euhedral, framboids, 1/4- to 1/2-mm spheres; clear fluorite(?); phosphate grains and fossil fragments; glauconite—sand-sized, minor; light-yellow-brown sphalerite.
47-045-000864	4,670-4,780													2.5	2.5	Pyrite—fine-grained, euhedral, framboids, partially replaced fossils (rods and spines); root-beer-brown fluorite; clear fluorite and (or) barite; yellow sphalerite; miscellaneous fossils and echinoderm fragments.
47-047-00031	6,100-6,310		0.99	0.2	0.07	0.39		7	39	0.8	2.16		50			
47-047-00031	6,525-6,669													3	3.5	
47-049-00244	6,820-6,900													3.5	4	Pyrite—fine-grained, euhedral, 1/4- to 1/2-mm spheres, replaced fossils (spines and rods, steinkerns (snails, bivalves)); clear fluorite; sphalerite—trace, light-yellow to yellow-orange.
47-049-00244	6,950-7,050		1.38	0.3	0.05	0.16		4	12	0.9	1.84		18			
47-049-00244	7,480-7,600													4	4	Pyrite—fine-grained, euhedral, framboids, replaced fossils (rods); pale-yellow to yellow-orange sphalerite; phosphatic fossil fragments and phosphatized steinkerns (echinoderms, bryozoan zoecia, snails, brachiopods, spines), clear fluorite(?).
47-049-00244	13,110-13,270													4	4.5	
47-051-00221	5,306-5,443		1.98	0.9	1.38	0.2	445	70	10	0.4	1.14		50			

Table 1

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
47-051-00221	W. Va.	Marshall	Businessburg	39.903613	-80.803055	No. 1 Ohio Valley S. Sa	Onondaga Limestone	Middle Devonian	Cuttings
47-051-00221	W. Va.	Marshall	Businessburg	39.903613	-80.803055	No. 1 Ohio Valley S. Sa	Helderberg Limestone	Lower Devonian	Cuttings
47-053-00069	W. Va.	Mason	Arlee	38.713895	-82.117226	Grover Arrington (8803)	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Rhinstreet Shale	Upper Devonian	Core
47-053-00146	W. Va.	Mason	Cheshire	38.925	-82.0625	No. 3 D&K Farms	Onondaga Limestone	Middle Devonian	Core
47-059-00805	W. Va.	Mingo	Trace	37.904452	-82.169442	Columbia Gas (9674-T)	Rhinstreet Shale	Upper Devonian	Cuttings
47-059-00805	W. Va.	Mingo	Trace	37.904452	-82.169442	Columbia Gas (9674-T)	Onondaga Limestone	Middle Devonian	Cuttings
47-059-00805	W. Va.	Mingo	Trace	37.904452	-82.169442	Columbia Gas (9674-T)	Trenton Ls-Black River Ls	Upper Ordovician	Cuttings
47-059-00879	W. Va.	Mingo	Wilsondale	37.88306	-82.2625	Columbia Gas (20500-T)	Black River Limestone	Upper Ordovician	Cuttings
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Tully Limestone	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-20370	W. Va.	Monongalia	Morgantown North	39.669167	-79.974167	No. 1 MERC	Marcellus Shale	Middle Devonian	Core
47-061-00307	W. Va.	Monongalia	Masontown	39.56417	-79.873055	No. A-1 Clifford J. May	Marcellus Shale	Middle Devonian	Cuttings
47-061-00307	W. Va.	Monongalia	Masontown	39.56417	-79.873055	No. A-1 Clifford J. May	Helderberg Limestone	Lower Devonian	Cuttings
WVAC-1	W. Va.	Monroe	Paint Bank	37.607778	-80.266667	Joy Mfg. Co. No. WVAC-1	Black River Limestone	Upper Ordovician	Core
47-067-00052	W. Va.	Nicholas	Ansted	38.216669	-81.063332	No. 1 Flynn Coal & Lumber	Marcellus Shale	Middle Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-051-00221	5,580-5,640													1.5	2	Pyrite—framboids, spheroids; pale-yellow sphalerite.
47-051-00221	5,807-5,877													2	2	Pyrite—fine grained, euhedral (less common), framboid, 1/4- to 1/2-mm spheres; black metallic grains—magnetite(?); sphalerite—pale-yellow to yellow, common; phosphatic fossil fragments; zircons—pink, abraded.
47-053-00069	3,310-3,420													1.5	1.5	Pyrite—fine-grained, euhedral, framboids, 1/4- to 1/2-mm spheres, replaced fossils (spicules and rods); sphalerite, light yellow to light brown, uncommon; uncommon phosphatic shell fragments.
47-053-00146	3,308										0.64					Streib (1981).
47-053-00146	3,316										0.61					Streib (1981).
47-053-00146	3,325										0.73					Streib (1981).
47-053-00146	3,336										0.58					Streib (1981).
47-053-00146	3,346										0.63					Streib (1981).
47-053-00146	3,356										0.63					Streib (1981).
47-053-00146	3,366										0.69					Streib (1981).
47-053-00146	3,374										0.65					Streib (1981).
47-053-00146	3,384										0.54					Streib (1981).
47-053-00146	3,422													1	1	A.G. Harris (unpublished data).
47-059-00805	3,720-3,840		3.03	0.3	2.3	0.77	440	76	25	0.1	0.72		48			
47-059-00805	3,600-3,700													1.5	2	Pyrite—fine grained, euhedral, framboids and framboid clusters; phosphate grains, fossil fragments, partial steinkerns (bryozoans); yellow sphalerite; zircons—pink, abraded.
47-059-00805	5,385-7,800													2	2	A.G. Harris (unpublished data).
47-059-00879	7,000-7,200													1.5	2	A.G. Harris (unpublished data).
47-061-20370	7,179													3	3.5	A.G. Harris (unpublished data).
47-061-20370	7,404										2.47					Streib (1981).
47-061-20370	7,414										2.03					Streib (1981).
47-061-20370	7,423										2.39					Streib (1981).
47-061-20370	7,434										2.28					Streib (1981).
47-061-20370	7,444										2.29					Streib (1981).
47-061-20370	7,452										2.24					Streib (1981).
47-061-20370	7,462										2.29					Streib (1981).
47-061-20370	7,472										2.23					Streib (1981).
47-061-20370	7,481										2.36					Streib (1981).
47-061-20370	7,492										2.22					Streib (1981).
47-061-20370	7,501										2.43					Streib (1981).
47-061-00307	7,300-7,440		1.09	0.2	0.12	0.27	344	11	25	0.7	1.46		11			
47-061-00307	8,020-8,280													2	3	Pyrite—fine-grained, 1/4- to 1/2-mm spheres; yellow-orange sphalerite.
WVAC-1	2,998-2,999													3.5	4	Sample published in Ryder and others (1996).
47-067-00052	5,922-6,089		0.98	0.1	0.03	0.26		3	27	0.8	1.57		22			

American Petroleum Institute no.	State	County	7.5-min quadrangle or township (New York and Ohio)	Latitude (decimal degrees)	Longitude (decimal degrees)	Lease name	Formation	Series/System	Sample type
47-067-00052	W. Va.	Nicholas	Ansted	38.216669	-81.063332	No. 1 Flynn Coal & Lumber	Helderberg Limestone	Lower Devonian	Cuttings
47-067-00194	W. Va.	Nicholas	Nettie	38.178892	-80.647225	No. 1-A New Gauley Coal	Marcellus Shale	Middle Devonian	Cuttings
47-067-00194	W. Va.	Nicholas	Nettie	38.178892	-80.647225	No. 1-A New Gauley Coal	Helderberg Limestone	Lower Devonian	Cuttings
47-071-00001	W. Va.	Pendleton	Upper Tract	38.81111	-79.3625	Neil Harper 1	Trenton Limestone	Upper Ordovician	Cuttings
47-071-00006	W. Va.	Pendleton	Snowy Mountain	38.54805	-79.51278	Ray Sponaugle 1 (8800-T)	Trenton Limestone	Upper Ordovician	Cuttings
47-071-00006	W. Va.	Pendleton	Snowy Mountain	38.54805	-79.51278	Ray Sponaugle 1 (8800-T)	Trenton Ls-Black River Ls	Middle Ordovician	Cuttings
47-071-00006	W. Va.	Pendleton	Snowy Mountain	38.54805	-79.51278	Ray Sponaugle 1 (8800-T)	Trenton Limestone	Middle Ordovician	Cuttings
47-071-00006	W. Va.	Pendleton	Snowy Mountain	38.54805	-79.51278	Ray Sponaugle 1 (8800-T)	Trenton Limestone	Middle Ordovician	Cuttings
47-077-00086	W. Va.	Preston	Newburg	39.466669	-79.870278	No. A-1 H.G. Walls	Tully Limestone	Middle Devonian	Cuttings
47-077-00086	W. Va.	Preston	Newburg	39.466669	-79.870278	No. A-1 H.G. Walls	Marcellus Sh-Hamilton Gp	Middle Devonian	Cuttings
47-077-00086	W. Va.	Preston	Newburg	39.466669	-79.870278	No. A-1 H.G. Walls	Trenton Limestone	Upper Ordovician	Cuttings
47-081-00017	W. Va.	Raleigh	Arnett	37.830989	-81.473244	No. 1 Rowland (GW-663)	Marcellus Shale	Middle Devonian	Cuttings
47-081-00017	W. Va.	Raleigh	Arnett	37.830989	-81.473244	No. 1 Rowland (GW-663)	Helderberg Limestone	Lower Devonian	Cuttings
47-081-00036	W. Va.	Raleigh	Meadow Creek	37.786666	-80.916664	No. 1 C.E. Gwinn (1115)	Rhinstreet Shale	Upper Devonian	Cuttings
47-081-00036	W. Va.	Raleigh	Meadow Creek	37.786666	-80.916664	No. 1 C.E. Gwinn (1115)	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
n/a	W. Va.	Randolph	Elkins	38.998333	-79.841667	n/a	Tully Limestone	Middle Devonian	Outcrop
47-083-00102	W. Va.	Randolph	Mill Creek	38.696387	-79.9525	WV Board of Control (10182)	Helderberg Limestone	Lower Devonian	Cuttings
47-083-00103	W. Va.	Randolph	Mill Creek	38.707218	-79.96917	WV Board of Control (10228)	Chazy Limestone	Middle Ordovician	Core
47-083-00103	W. Va.	Randolph	Mill Creek	38.707218	-79.96917	WV Board of Control (10228)	Chazy Limestone	Middle Ordovician	Core
47-085-01894	W. Va.	Ritchie	Willow Island	39.252778	-81.2575	Leora A. Elliott (10160)	Rhinstreet Shale	Upper Devonian	Cuttings
47-085-01894	W. Va.	Ritchie	Willow Island	39.252778	-81.2575	Leora A. Elliott (10160)	Onondaga Limestone	Middle Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-067-00052	6,397-6,500													2.5	3	Pyrite—fine-grained, framboids, replaced fossils (rods, reticulate meshworks); pale-yellow sphalerite; phosphatic fossils—steinkerns (bryozoans, spicules, and so on) and miscellaneous fragments.
47-067-00194	7,200-7,380		2.61	0.4	0.28	0.79	347	11	30	0.6	1.76		21			
47-067-00194	7,595-7,700													3	3	Pyrite—fine-grained, euhedral, spheres, framboid clusters, fossil replacement (spines and rods); yellow-reddish-orange-brown sphalerite; phosphatic grains and fossil fragments; zircons—pink, abraded.
47-071-00001	20-165															
47-071-00006	10,040-10,250													4.5	4.5	Pyrite—fine-grained, euhedral; clear fluorite.
47-071-00006	700-1,000													3.5	4	A.G. Harris (unpublished data).
47-071-00006	10,035-10,380													4	4.5	A.G. Harris (unpublished data).
47-071-00006	11,475-11,810													5	5	A.G. Harris (unpublished data).
47-077-00086	7,115-7,185													4	4	Pyrite—fine-grained, euhedral, framboids, replaced fossils (rods and spines); clear fluorite; yellow sphalerite.
47-077-00086	7,185-7,390		1.43	1.6	2.14	0.4	384	150	28	0.4	1.6		50			
47-077-00086	14,010-14,195													4.5	5	
47-081-00017	5,656-5,751		0.72	0.2	0.07	0.22	336	10	31	0.7	1.94		21			n/a
47-081-00017	6,042-6,141													3.5	3.5	Pyrite—fine-grained, mostly oxidized; phosphatic blebs, grains, and abraded miscellaneous fossil fragments; sphalerite—yellow-brown, uncommon; mica—rare, oxidized.
47-081-00036	5,900-6,185		1.94	0.6	0.75	0.8	372	39	41	0.4	1.9		11			n/a
47-081-00036	6,198-6,395													4	4	Pyrite—fine-grained, euhedral, spheres (framboids and framboid clusters), partially replaced fossil fragments; zircons—pink, abraded; orange to yellow sphalerite; phosphate grains—steinkerns, spines, sponge spicules.
	n/a													2.5	2.5	A.G. Harris (unpublished data).
47-083-00102	2,950-3,240													2	2.5	
47-083-00103	12,695.30													2.5	3	Pyrite—fine-grained, euhedral, rare; rare fossil spines and rods; rare silicified tubes (sponge?).
47-083-00103	12,721.50															Pyrite—small euhedra, fine-grained; dolomite—fine, silt-sized; zircons—pink, rounded, detrital; unknown grains—clear, rounded.
47-085-01894	4,690-4,800		0.87	0.5	0.77	0.24	448	89	28	0.4	0.85		68			
47-085-01894	5,290-5,420													2	2	Pyrite—fine-grained, euhedral, framboids; phosphatic grains and indeterminate fossil fragments; dolomite silt.

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47-085-01894	W. Va.	Ritchie	Willow Island	39.252778	-81.2575	Leora A. Elliott (10160)	Helderberg Limestone	Lower Devonian	Cuttings
47-087-00019	W. Va.	Roane	Gay	38.781388	-81.503891	J.W. Heinzman (4053)	Rhinestreet Shale	Upper Devonian	Cuttings
47-087-00019	W. Va.	Roane	Gay	38.781388	-81.503891	J.W. Heinzman (4053)	Onondaga Limestone	Middle Devonian	Cuttings
47-087-00019	W. Va.	Roane	Gay	38.781388	-81.503891	J.W. Heinzman (4053)	Helderberg Limestone	Lower Devonian	Cuttings
47-087-00019	W. Va.	Roane	Gay	38.781388	-81.503891	J.W. Heinzman (4053)	Trenton Limestone	Upper Ordovician	Cuttings
47-087-00714	W. Va.	Roane	Clio	38.537562	-81.272982	No. 2 Osborne (8100-T)	Rhinestreet Shale	Upper Devonian	Cuttings
47-087-00714	W. Va.	Roane	Clio	38.537562	-81.272982	No. 2 Osborne (8100-T)	Onondaga Limestone	Middle Devonian	Cuttings
47-087-00714	W. Va.	Roane	Clio	38.537562	-81.272982	No. 2 Osborne (8100-T)	Helderberg Limestone	Lower Devonian	Cuttings
47-089-00005	W. Va.	Summers	Hinton	37.692503	-80.925004	Anchor Gas No. 1 Ball	Marcellus Shale	Middle Devonian	Cuttings
47-089-00005	W. Va.	Summers	Hinton	37.692503	-80.925004	Anchor Gas No. 1 Ball	Helderberg Limestone	Lower Devonian	Cuttings
47-093-00003	W. Va.	Tucker	Blackwater Falls	39.097781	-79.387497	No. 1 (A-418) WVP&T Co.	Marcellus Shale	Middle Devonian	Cuttings
47-093-00003	W. Va.	Tucker	Blackwater Falls	39.097781	-79.387497	No. 1 (A-418) WVP&T Co.	Helderberg Limestone	Lower Devonian	Cuttings
47-093-00013	W. Va.	Tucker	St. George	39.171666	-79.634446	USA No. C-1 (GW-1215)	Marcellus Shale	Middle Devonian	Cuttings
47-093-00013	W. Va.	Tucker	St. George	39.171666	-79.634446	USA No. C-1 (GW-1215)	Helderberg Limestone	Lower Devonian	Cuttings
47-099-00138	W. Va.	Wayne	Wayne	38.206113	-82.489167	No. 2 Saunders	Huron Mbr of Ohio Sh-Rhinestreet Sh	Upper Devonian	Cuttings
47-099-00138	W. Va.	Wayne	Wayne	38.206113	-82.489167	No. 2 Saunders	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
47-099-00162	W. Va.	Wayne	Louisa	38.037224	-82.517777	No. 3 Glenhayes Co. (559)	Huron Mbr of Ohio Sh-Rhinestreet Sh	Upper Devonian	Cuttings
47-099-00162	W. Va.	Wayne	Louisa	38.037224	-82.517777	No. 3 Glenhayes Co. (559)	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
47-099-00465	W. Va.	Wayne	Webb	37.892224	-82.39389	Caldwell No. 42 (6181)	Rhinestreet Shale	Upper Devonian	Cuttings
47-099-00465	W. Va.	Wayne	Webb	37.892224	-82.39389	Caldwell No. 42 (6181)	Onondaga Ls-Helderberg Ls	Middle/Lower Devonian	Cuttings
47-099-00465	W. Va.	Wayne	Webb	37.892224	-82.39389	Caldwell No. 42 (6181)	Trenton Limestone	Upper Ordovician	Cuttings
47-103-20645	W. Va.	Wetzel	New Martinsville	39.67694	-80.82389	Emch and Pyles No. 1	Marcellus Shale	Middle Devonian	Core

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-085-01894	5,520-5,700															Pyrite—fine-grained; phosphatic grains and indeterminate fossil fragments; zircons—pink, abraded; indeterminate brownish-amber and clear abraded grains.
47-087-00019	4,840-5,200		1.22	1.2	2	0.38	396	164	31	0.4	1.02		43			
47-087-00019	5,210-5,380													2	2	
47-087-00019	5,450-5,600													2	2.5	
47-087-00019	8,875-9,055													3	3	
47-087-00714	4,440-4,580		0.27	0.2	0.26	0.33	443	96	122	0.4	1.46		53			
47-087-00714	5,180-5,320													2	2.5	Pyrite—fine-grained, euhedral, spheres, replaced fossils (spines and rods); phosphatic fossil fragments—types indeterminate; fluorite(?)—clear, uncommon; sphalerite—yellow and reddish-brown, uncommon.
47-087-00714	5,420-5,530													2.5	2.5	Pyrite—fine-grained, 1/4- to 1/2-mm spheres, framboids (individuals and clusters), replaced fossils (rods or tubes), minor euhedral; pale-yellow to pale orange-yellow sphalerite; unknown clear mineral grains.
47-089-00005	6,600-6,710		0.34	0.1	0.12	0.22	354	35	65	0.4	3.19		44			
47-089-00005	7,040-7,150													4	4	Pyrite—fine-grained, euhedral; phosphatic grains, fossil fragments, and replaced fossils (echinoderm fragments); zircons—pink, abraded; clear fluorite(?).
47-093-00003	7,701-7,820		1.85	0.4	0.3	0.35	345	16	19	0.6	2.94		40			
47-093-00003	7,900-8,004													3	3.5	
47-093-00013	2,934-3,287		1.28	0.4	0.38	0.35	403	30	27	0.5	2.21		48			
47-093-00013	3,652-3,774													3	3.5	
47-099-00138	2,285-3,000		2.14	1	4.96	0.49	432	232	23	0.2	0.88		48			
47-099-00138	3,141-3,301													1.5	1.5	Pyrite—fine-grained, euhedral, framboids, sand-sized spheroids, spherical framboid clusters, replaced fossils (spines and rods); phosphate grains and occasional fossil fragments; yellow to yellow orange sphalerite; zircons—pink, abraded, uncommon; unknown clear minerals.
47-099-00162	2,205-2,897		2.62	1.7	7.47	0.74	434	285	28	0.2	0.77		58			
47-099-00162	2,899-2,999													2	2.5	Pyrite—fine-grained, euhedral, framboids (minor), replaced fossils (rods and spines, partially replaced ostracodes or mollusks), spheres; uncommon glauconite; yellow sphalerite; rare unknown black silvery metallic grains; phosphatic partial steinkerns of bryozoa and so on; zircons—pink, abraded.
47-099-00465	2,956-3,096.3		1.51	0.6	2.71	0.34	438	179	23	0.2	0.75		58			
47-099-00465	3,108-3,198													1.5	2	
47-099-00465	5,101-5,272													1.5	2	
47-103-20645	6,599										1.62					Streib (1981).

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47-103-20645	W. Va.	Wetzel	New Martinsville	39.67694	-80.82389	Emch and Pyles No. 1	Marcellus Shale	Middle Devonian	Core
47-105-00068	W. Va.	Wirt	Burning Springs	38.993055	-81.307779	No. 500 Roberts	Rhinestreet Shale	Upper Devonian	Cuttings
47-105-00068	W. Va.	Wirt	Burning Springs	38.993055	-81.307779	No. 500 Roberts	Helderberg Limestone	Lower Devonian	Cuttings
47-107-00351	W. Va.	Wood	Willow Island	39.256945	-81.2725	Hope Nat Gas No. 9634	Rhinestreet Shale	Upper Devonian	Cuttings
47-107-00351	W. Va.	Wood	Willow Island	39.256945	-81.2725	Hope Nat Gas No. 9634	Onondaga Limestone	Middle Devonian	Cuttings
47-107-00351	W. Va.	Wood	Willow Island	39.256945	-81.2725	Hope Nat Gas No. 9634	Helderberg Limestone	Lower Devonian	Cuttings
47-107-00351	W. Va.	Wood	Willow Island	39.256945	-81.2725	Hope Nat Gas No. 9634	Trenton Limestone	Upper Ordovician	Core
47-107-00351	W. Va.	Wood	Willow Island	39.256945	-81.2725	Hope Nat Gas No. 9634	Beekmantown Dolomite	Lower/Middle Ordovician	Core
47-107-00756	W. Va.	Wood	Rockport	39.080553	-81.508331	Exxon No. 1 Deem	Rhinestreet Shale	Upper Devonian	Cuttings
47-107-00756	W. Va.	Wood	Rockport	39.080553	-81.508331	Exxon No. 1 Deem	Onondaga Limestone	Middle Devonian	Cuttings
47-107-00756	W. Va.	Wood	Rockport	39.080553	-81.508331	Exxon No. 1 Deem	Helderberg Limestone	Lower Devonian	Cuttings
47-107-00756	W. Va.	Wood	Rockport	39.080553	-81.508331	Exxon No. 1 Deem	Trenton Limestone	Upper Ordovician	Cuttings
47-109-00016	W. Va.	Wyoming	Gilbert	37.538056	-81.753052	No. 1 Gilbert (0168)	Marcellus Shale	Middle Devonian	Cuttings
47-109-00016	W. Va.	Wyoming	Gilbert	37.538056	-81.753052	No. 1 Gilbert (0168)	Helderberg Limestone	Lower Devonian	Cuttings

American Petroleum Institute no.	Interval sampled (ft)	Sample mass (g)	TOC	S ₁	S ₂	S ₃	T _{max}	HI	OI	PI	%R _o (mean)	%R _o (mean) corrected for suppression	Number of R _o readings	CAI _{min}	CAI _{max}	Comments regarding insoluble heavy fraction mineralogy and fossils and other comments
47-103-20645	6,618										1.79					Streib (1981).
47-105-00068	4,400-4,507		1.09	0.4	0.96	0.23	446	88	21	0.3	0.9		37			
47-105-00068	5,000-5,135													2	2	
47-107-00351	3,617-3,714		1.85	0.7	2.57	0.48	448	139	26	0.2	0.92		50			
47-107-00351	4,038-4,078													2	2.5	
47-107-00351	5,940-6,100													2	2	Pyrite—fine-grained, euhedral, occasional replaced fossils (spines, bryozoan zoecia, ostracode(?)); clear brown mineral—ankerite(?), fluorite(?); clear fluorite; uncommon phosphatic shell fragments; rare phosphatized echinoderm fragments.
47-107-00351	9,532-9,543.5													3	3.5	Pyrite—fine-grained, fossil fragments; phosphate fossil shell bits, vertebrate scale fragments; bryozoans, brachiopods, sponges, ostracodes, gastropods(?); clumps of acicular barite(?).
47-107-00351	10,796															Pyrite—fine-grained, framboids, fine-euhedral, fine-grained clumps; clear blocky mineral—possibly barite; fine dolomite rhombs; unknown clear grains including barite(?).
47-107-00756	4,650-4,760		0.61	0	0.29	0.42	443	48	69	0.1	1.11		17			
47-107-00756	5,020-5,130													1.5	2	Pyrite—fine-grained, euhedral, 1/4- to 1/2-mm spheres, replaced fossils (bivalves, sponge spicules?); yellow to yellow-orange sphalerite.
47-107-00756	5,200-5,310															Pyrite—fine-grained, spheres, framboids, rare euhedral dodecahedral; pale-yellow to light-orange sphalerite; fossil coral(?); rare steinkerns; rare phosphatic shell fragments; brown, phosphatic(?), glassy, sand-sized beads.
47-107-00756	8,550-8,660													2	2.5	
47-109-00016	5,468-5,554		1.8	0.6	0.57	0.45	340	32	25	0.5	2.07		38			
47-109-00016	5,797-5,887													3	3	