

Table 1. Bulk geochemical and petrophysical and locality, lithology and depth data for a total of 255 samples collected from three areas of the Zonguldak Basin: namely, Armutçuk, Zonguldak and Amasra.

AREA	Sample No	Sample Code	Lithology	Depth	TOC	HI	OI	C	H	N	O	H/C	O/C	Tmax	Ro	V	L	I	V <sub>Mono</sub>	Ash	Total Methane Content
				(m)	(%)	(mg HC g C <sub>org</sub> )	(mgCO <sub>2</sub> g C <sub>org</sub> )	(%)	(%)	(%)	(%)	Atomic ratio	Atomic ratio	(°C)	(%)	(%,mmf)	(%,mmf)	(%,mmf)	(cm <sup>3</sup> /g)	(dry %)	(L/g)
A R M U T Ç U K	1	WKAN.23-1	coal	371.00	72.50	248	7	*	*	*	*	*	*	439	0.75	*	*	*	*	*	*
	2	WKAN.23-2	coal	485.00	70.10	220	6	79.36	5.32	0.10	7.42	0.05	0.80	436	0.79	23	29	48	18.02	5.09	*
	3	WKAN23-3	coal	526.00	73.60	232	5	*	*	*	*	*	*	439	0.83	*	*	*	*	*	*
	4	WKAN23-4	coal	536.00	75.20	272	5	*	*	*	*	*	*	441	0.88	41	31	28	22.03	5.63	*
	5	WÇAM3-1	coal	228.00	75.60	255	3	78.93	4.75	1.13	7.97	0.72	0.50	430	1.01	24	36	40	17.18	4.92	*
	6	WÇAM3-2	coal	238.00	75.40	213	4	*	*	*	*	*	*	433	0.76	*	*	*	*	*	*
	7	WÇAM3-3	coal	246.00	63.70	245	5	*	*	*	*	*	*	432	0.81	*	*	*	*	*	*
	8	WÇAM3-4	coal	708.00	75.10	225	4	*	*	*	*	*	*	438	0.87	54	19	27	12.62	4.93	*
	9	WÇAM3-5	coal	716.00	82.70	257	4	*	*	*	*	*	*	437	0.82	34	28	38	11.02	3.64	*
	10	WÇAM2A-1	coal	432.00	75.20	249	4	*	*	*	*	*	*	433	0.75	*	*	*	*	*	*
	11	WÇAM2A-2	coal	622.00	79.50	268	5	*	*	*	*	*	*	439	0.76	41	17	43	13.93	4.39	*
Z O N G U L D A K	12	S-1	coal	300.00	84.20	160	2	82.80	5.09	0.97	6.79	0.74	0.06	454	1.15	53	12	35	28.26	8.21	*
	13	S-2	coal	300.00	*	*	*	*	*	*	*	*	*	*	1.01	57	20	23	20.48	3.71	*
	14	S-3	coal	300.00	75.50	184	4	76.50	4.93	1.20	5.39	0.77	0.05	434	0.91	53	10	36	11.72	10.20	*
	15	S-4	coal	250.00	79.20	211	3	86.69	5.26	1.08	6.97	0.73	0.06	452	0.92	*	*	*	*	*	*
	16	S-5	coal	150.00	81.70	165	3	83.55	4.67	0.96	10.82	0.67	0.10	461	1.12	*	*	*	*	*	*
	17	S-6	coal	250.00	64.50	225	5	*	*	*	*	*	*	451	0.92	*	*	*	*	*	*
	18	S-7	coal	200.00	50.00	185	7	*	*	*	*	*	*	450	0.94	*	*	*	*	*	*
	19	S-8	coal	100.00	73.20	205	4	73.31	4.62	0.75	21.32	0.76	0.22	447	0.80	*	*	*	*	*	*
	20	S-9	coal	150.00	78.90	167	3	82.79	4.72	0.70	11.79	0.68	0.11	457	1.01	*	*	*	*	*	*
	21	S-10	coal	190.00	66.50	171	4	*	*	*	*	*	*	462	1.04	*	*	*	*	*	*
	22	S-11	coal	150.00	61.90	190	5	*	*	*	*	*	*	456	1.06	*	*	*	*	*	*
	23	S-12	coal	100.00	77.70	259	4	*	*	*	*	*	*	440	0.83	*	*	*	*	*	*

Table 1. Bulk geochemical and petrophysical and locality, lithology and depth data for a total of 255 samples collected from three areas of the Zonguldak Basin: namely, Armutçuk, Zonguldak and Amasra.

AREA	Sample No	Sample Code	Lithology	Depth	TOC	HI	OI	C	H	N	O	H/C	O/C	Tmax	Ro	V	L	I	V <sub>Mono</sub>	Ash	Total Methane Content	
				(m)	(%)	(mg HC g C <sub>org</sub> )	(mgCO <sub>2</sub> g C <sub>org</sub> )	(%)	(%)	(%)	(%)	Atomic ratio	Atomic ratio	(°C)	(%)	(%,mmf)	(%,mmf)	(%,mmf)	(cm <sup>3</sup> /g)	(dry %)	(L/g)	
Z O N G U L D A K	24	S-13	coal	250.00	86.80	163	3	*	*	*	*	*	*	458	1.02	75	5	20	17.68	2.02	*	
	25	S-14	coal	250.00	75.70	158	2	80.80	4.60	1.00	3.70	0.68	0.03	457	1.01	52	7	41	13.74	9.25	*	
	26	S-15	coal	320.00	77.70	156	2	77.07	4.34	1.01	6.37	0.68	0.06	458	1.09	51	4	46	13.75	10.35	*	
	27	S-16	coal	250.00	75.90	192	4	*	*	*	*	*	*	443	0.87	50	20	31	27.74	12.15	*	
	28	S-17	coal	280.00	84.90	156	2	85.90	4.83	1.14	2.86	0.67	0.02	458	1.25	49	8	43	16.43	4.67	*	
	29	S-18	coal	400.00	*	*	*	*	*	*	*	*	*	*	*	*	68	8	24	15.52	28.64	*
	30	S-19	coal	260.00	54.60	285	4	86.14	5.04	0.95	7.87	0.70	0.07	463	1.14	*	*	*	*	*	*	
	31	S-20	coal	360.00	79.90	160	3	*	*	*	*	*	*	*	466	1.12	*	*	*	*	*	*
	32	S-21	coal	300.00	78.50	195	4	*	*	*	*	*	*	*	460	1.07	*	*	*	*	*	*
	33	S-22	coal	100.00	79.80	214	5	*	*	*	*	*	*	*	454	0.63	*	*	*	*	*	*
	34	S-23	coal	300.00	79.70	159	4	*	*	*	*	*	*	*	466	1.12	*	*	*	*	*	*
	35	S-24	coal	320.00	71.60	190	4	86.20	4.54	1.16	1.89	0.63	0.02	460	1.14	38	10	52	21.63	5.25	*	
	36	S-25	coal	300.00	76.40	202	3	*	*	*	*	*	*	*	443	0.95	63	12	26	14.41	13.19	*
	37	S-26	coal	320.00	76.20	140	2	72.97	4.06	0.96	6.74	0.67	0.07	457	1.09	65	4	32	9.40	14.38	*	
	38	S-27	coal	360.00	75.40	161	3	*	*	*	*	*	*	*	456	1.09	55	4	41	11.07	14.57	*
	39	S-28	coal	375.00	75.80	162	2	75.99	4.33	0.93	4.38	0.68	0.04	458	1.08	74	3	23	24.89	13.39	*	
	40	S-29	coal	300.00	85.60	148	2	85.10	4.81	1.00	4.97	0.68	0.04	457	1.10	53	10	37	10.92	3.32	*	
	41	S-30	coal	320.00	73.20	137	2	78.81	4.32	0.95	3.94	0.66	0.04	460	1.13	49	46	5	13.65	11.06	*	
	42	S-31	coal	275.00	73.00	174	3	76.51	4.44	0.84	2.88	0.70	0.03	449	0.97	43	6	51	10.26	14.05	*	
	43	S-32	coal	400.00	64.10	180	3	63.07	3.68	0.66	5.45	0.70	0.06	450	1.03	60	11	29	20.58	26.25	*	
44	S-33	coal	400.00	63.90	184	3	*	*	*	*	*	*	*	458	1.08	69	4	27	15.48	21.16	*	
45	S-34	coal	250.00	*	*	*	*	*	*	*	*	*	*	*	1.06	69	6	25	11.41	26.00	*	
46	S-35	coal	250.00	82.30	192	3	*	*	*	*	*	*	*	449	1.00	64	9	27	17.34	6.21	*	

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Z O N G U L D A K	47	S-36	coal	405.00	81.70	184	2	*	*	*	*	*	*	444	0.95	61	12	28	18.63	7.12	*	
	48	S-37	coal	200.00	63.90	157	1	77.85	4.69	1.14	6.14	0.72	0.06	457	0.85	72	8	20	16.01	8.30	*	
	49	S-38	coal	500.00	*	*	*	*	*	*	*	*	*	*	1.13	59	3	38	15.09	8.84	*	
	50	S-39	coal	380.00	81.90	171	2	81.93	4.84	1.09	3.65	0.71	0.03	450	1.09	72	3	24	18.03	6.30	*	
	51	S-40	coal	500.00	*	*	*	*	*	*	*	*	*	*	0.97	82	2	15	15.52	32.49	*	
	52	S-41	coal	370.00	75.50	183	5	73.98	4.27	1.00	8.41	0.69	0.09	441	0.79	46	14	40	20.13	11.13	*	
	53	S-42	coal	410.00	*	*	*	79.00	4.74	0.97	4.47	0.72	0.04	*	1.02	55	10	34	17.27	9.08	*	
	54	S-43	coal	370.00	36.10	213	4	*	*	*	*	*	*	*	454	1.04	66	8	27	10.49	46.39	*
	55	S-44	coal	350.00	81.90	199	4	82.24	5.11	0.90	6.36	0.75	0.06	436	0.82	70	16	14	19.07	3.10	*	
	56	WGE44-1	coal	434.00	69.30	197	5	*	*	*	*	*	*	*	455	0.93	*	*	*	*	*	*
	57	WGE44-2	coal	791.00	60.40	143	3	*	*	*	*	*	*	*	459	0.99	*	*	*	*	*	*
	58	WK20G-1	coal	452.25	78.60	248	2	*	*	*	*	*	*	*	447	0.84	*	*	*	*	*	*
	59	WK20G-2	coal	461.90	66.95	282	2	*	*	*	*	*	*	*	447	0.83	*	*	*	*	*	*
	60	WK20G-3	coal	476.65	65.00	248	2	*	*	*	*	*	*	*	448	0.85	*	*	*	*	*	*
	61	WK20G-4	coal	543.30	77.25	249	2	*	*	*	*	*	*	*	449	*	*	*	*	*	*	*
	62	WK20G-5	coal	545.10	*	*	*	73.36	4.81	1.09	20.19	0.79	0.21	*	0.89	*	*	*	*	*	*	*
	63	WK20G-6	coal	825.75	*	*	*	*	*	*	*	*	*	*	451	*	*	*	*	*	*	329.724
	64	WK20G-7	coal	825.83	*	*	*	*	*	*	*	*	*	*	*	1.02	*	*	*	*	*	*
	65	WK20G-8	coal	826.10	84.15	251	2	*	*	*	*	*	*	*	451	*	*	*	*	*	*	*
	66	WK20G-9	coal	927.60	75.65	207	2	*	*	*	*	*	*	*	459	1.05	*	*	*	*	*	*
67	WK20G-10	coal	972.80	70.35	196	3	81.86	4.99	1.23	11.39	0.73	0.10	460	1.08	*	*	*	*	*	*	*	
68	WK20G-11	coal	1000.95	75.60	219	4	*	*	*	*	*	*	*	455	*	*	*	*	*	*	*	
69	WK20G-12	coal	1008.95	*	*	*	*	*	*	*	*	*	*	*	1.12	*	*	*	*	*	*	*
70	WK20G-13	coal	1024.20	*	*	*	*	*	*	*	*	*	*	*	1.12	*	*	*	*	*	*	*



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Z O N G U L D A K	95	WK20G-38	coal	1522.00	*	*	*	*	*	*	*	*	*	479	*	*	*	*	*	*	4777.000	
	96	WK20G-39	coal	1522.90	80.60	124	2	*	*	*	*	*	*	479	*	*	*	*	*	*	*	
	97	WK20G-40	coal	1522.35	*	*	*	*	*	*	*	*	*	*	1.43	*	*	*	*	*	*	
	98	WK20G-41	coal	1539.43	*	*	*	*	*	*	*	*	*	*	1.44	*	*	*	*	*	*	
	99	WK20G-42	coal	1545.25	*	*	*	*	*	*	*	*	*	*	1.45	*	*	*	*	*	*	
	100	WK20G-43	coal	1614.60	69.50	121	2	*	*	*	*	*	*	481	1.50	*	*	*	*	*	*	
	101	WK20H-1	sandstone	321.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.040
	102	WK20H-2	sandstone	395.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.480
	103	WK20H-3	sandstone	481.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.390
	104	WK20H-4	coal	524.15	*	*	*	59.82	3.71	0.87	9.40	0.74	0.12	*	*	*	*	*	*	*	*	
	105	WK20H-5	siltstone	547.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.170
	106	WK20H-6	siltstone	622.20	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.350
	107	WK20H-7	sandstone	707.50		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.530
	108	WK20H-8	sandstone	726.60	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	130.300
	109	WK20H-9	coal	727.00	66.00	*	*	*	*	*	*	*	*	*	449	*	*	*	*	*	*	4197.070
	110	WK20H-10	coal	727.45	*	219	2	59.15	3.52	0.72	9.94	0.74	0.10	449	0.97	68	0	32	8.31	23.11	*	
	111	WK20H-11	sandstone	805.30	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.590
	112	WK20H-12	sandstone	866.90	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	136.700
113	WK20H-13	coal	867.00	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6338.170	
114	WK20H-14	sandstone	867.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	140.390	
115	WK20H-15	sandstone	928.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.290	
116	WK20H-16	sandstone	953.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	62.170	
117	WK20H-17	coal	953.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5639.270	
118	WK20H-18	coal	954.35	*	*	*	*	*	*	*	*	*	*	*	1.06	64.00	0.00	36.00	9.82	26.23	*	

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Z O N G U L D A K	119	WK20H-19	coal	968.35	*	*	*	63.36	3.72	0.87	3.93	0.70	0.05	*	1.10	55	2	43	10.66	27.36	*	
	120	WK20H-20	coal	970.00	*	*	*	*	*	*	*	*	*	*	1.12	63	5	32	8.67	23.29	*	
	121	WK20H-21	sandstone	1022.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	46.420
	122	WK20H-22	coal	1075.00	*	150	4	*	*	*	*	*	*	*	461	*	*	*	*	*	*	*
	123	WK20H-23	siltstone	1075.90	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	194.620
	124	WK20H-24	coal	1075.95		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2980.120
	125	WK20H-25	siltstone	1076.00	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	349.390
	126	WK20H-26	coal	1092.65	*	*	*	*	*	*	*	*	*	*	*	1.13	77	0	23	11.78	22.52	*
	127	WK20H-27	sandstone	1152.75	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	55.920
	128	WK20H-28	sandstone	1238.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.590
	129	WK20H-29	siltstone	1269.80	21.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2411.150
	130	WK20H-30	coal	1269.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4327.620
	131	WK20H-31	siltstone	1276.90	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	982.900
	132	WK20H-32	coal	1277.00	*	124	3	*	*	*	*	*	*	*	462	*	*	*	*	*	*	3569.370
	133	WK20H-33	siltstone	1277.40	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	297.270
	134	WK20H-34	coal	1343.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1826.870
	135	WK20H-35	coal	1343.60	73.60	135	2	78.19	4.27	0.91	3.01	0.66	0.03	468	1.21	73	0	27	20.43	12.76	*	
	136	WK20H-36	siltstone	1346.30	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	119.500
	137	WK20H-37	siltstone	1386.00	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	251.980
	138	WK20H-38	coal	1387.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3558.920
139	WK20H-39	siltstone	1388.30	9.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.590	
140	WK20H-40	coal	1414.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5806.920	
141	WK20H-41	sandstone	1491.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.040	
142	WK20H-42	coal	1507.20	68.30	149	3	*	*	*	*	*	*	*	474	1.27	85	0	15	19.95	13.99	*	

Table 1. Bulk geochemical and petrophysical and locality, lithology and depth data for a total of 255 samples collected from three areas of the Zonguldak Basin: namely, Armutçuk, Zonguldak and Amasra.

AREA	Sample No	Sample Code	Lithology	Depth	TOC	HI	OI	C	H	N	O	H/C	O/C	Tmax	Ro	V	L	I	V <sub>Mono</sub>	Ash	Total Methane Content	
				(m)	(%)	(mg HC g C <sub>org</sub> )	(mgCO <sub>2</sub> g C <sub>org</sub> )	(%)	(%)	(%)	(%)	Atomic ratio	Atomic ratio	(°C)	(%)	(%,mmf)	(%,mmf)	(%,mmf)	(cm <sup>3</sup> /g)	(dry %)	(L/g)	
Z O N G U L D A K	143	WK20H-43	coal	1519.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3296.210	
	144	WK20H-44	siltstone	1520.25	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	382.140
	145	WK20H-45	coal	1547.63	*	*	*	*	*	*	*	*	*	*	1.26	55	0	45	9.51	41.22	*	
	146	WK20H-46	siltstone	1557.50	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	200.710
	147	WK20H-47	coal	1557.80	*	144	3	*	*	*	*	*	*	*	470	*	*	*	*	*	*	4935.160
	148	WK20H-48	siltstone	1558.35	7.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	342.580
	149	WK20H-49	coal	1567.85	*	*	*	*	*	*	*	*	*	*	1.28	57	0	43	7.17	26.78	*	
	150	WK20H-50	siltstone	1586.65	9.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1593.990
	151	WK20H-51	coal	1586.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5210.700
	152	WK20H-52	siltstone	1587.10	7.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	891.850
	153	WK20H-53	siltstone	1646.50	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	233.480
	154	WK20H-54	siltstone	1649.10	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1568.910
	155	WK20H-55	coal	1648.80	77.00	133	3	*	*	*	*	*	*	*	472	*	*	*	*	*	*	3316.300
	156	WK20H-56	coal	1650.33	*	*	*	64.13	3.48	1.09	9.82	0.65	0.11	*	1.32	39	0	61	10.66	20.52	*	
	157	WK20H-57	coal	1654.88	*	*	*	67.17	3.48	0.69	7.93	0.62	0.09	*	1.31	58	0	42	36.26	20.14	*	
	158	WK20H-58	sandstone	1733.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.810
159	WK20H-59	sandstone	1801.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.580	
160	WK20H-60	sandstone	1885.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.870	
161	WK20H-61	coal	1893.45	*	*	*	*	*	*	*	*	*	*	1.43	40	0	60	6.47	26.07	*		
162	WK20H-62	siltstone	1968.60	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	180.990	
163	WK20K-1	siltstone	260.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.042	
164	WK20K-2	coal	473.78	*	*	*	*	*	*	*	*	*	*	0.79	67	9	23	4.70	*	*		
165	WK20K-3	coal	487.30	*	296	1	*	*	*	*	*	*	*	443	*	*	*	*	*	*	669.947	
166	WK20K-4	coal	487.51	*	*	*	74.62	4.44	1.13	6.63	0.71	0.07	*	0.80	58	15	26	17.13	9.89	*		







Table 1. Bulk geochemical and petrophysical and locality, lithology and depth data for a total of 255 samples collected from three areas of the Zonguldak Basin: namely, Armutçuk, Zonguldak and Amasra.

AREA	Sample No	Sample Code	Lithology	Depth	TOC	HI	OI	C	H	N	O	H/C	O/C	Tmax	Ro	V	L	I	V <sub>Mono</sub>	Ash	Total Methane Content	
				(m)	(%)	(mg HC g C <sub>org</sub> )	(mgCO <sub>2</sub> g C <sub>org</sub> )	(%)	(%)	(%)	(%)	Atomic ratio	Atomic ratio	(°C)	(%)	(%,mmf)	(%,mmf)	(%,mmf)	(cm <sup>3</sup> /g)	(dry %)	(L/g)	
Z O N G U L D A K	215	WGE40/G-4	coal	584.60	56.50	*	*	*	*	*	*	*	*	449	*	*	*	*	*	*	1309.360	
	216	WGE40/G-5	siltstone	585.40	2.97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	63.852
	217	WGE40/G-6	coal	592.20	57.80	*	*	*	*	*	*	*	*	*	455	*	*	*	*	*	*	1538.719
	218	WGE40/G-7	sandstone	647.30	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.016
	219	WGE40/G-8	siltstone	722.50	12.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	631.017
	220	WGE40/G-9	coal	723.00	74.90	*	*	*	*	*	*	*	*	*	465	*	*	*	*	*	*	10445.430
	221	WGE40/G-10	siltstone	723.40	1.79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	298.747
	222	WGE40/G-11	sandstone	758.50	2.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	298.036
	223	WGE40/G-12	coal	758.90	84.20	*	*	*	*	*	*	*	*	*	459	*	*	*	*	*	*	4469.881
	224	WGE40/G-13	sandstone	872.30	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.991
	225	WGE40/G-14	siltstone	998.10	1.39	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	83.647
	226	WGE40/G-15	siltstone	1014.50	0.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	32.571
A M A S R A	227	WAK6-1	coal	745.00	70.10	203	5	*	*	*	*	*	*	434	0.78	*	*	*	*	*	*	
	228	WAK7-0	coal	47.00	72.50	243	6	*	*	*	*	*	*	431	0.73	*	*	*	*	*	*	
	229	WAK7-1	coal	455.00	72.90	275	5	78.96	5.55	1.00	17.59	0.84	0.17	428	0.62	68	18	14	*	4.62	*	
	230	WAK7-2	coal	488.00	71.30	214	7	75.04	5.46	1.12	18.38	0.87	0.18	420	0.50	64	22	14	31.75	4.45	*	
	231	S-44	coal	150.00	72.30	187	9	*	*	*	*	*	*	421	0.93	*	*	*	*	*	*	
	232	S-45	coal	350.00	60.90	237	12	*	*	*	*	*	*	422	0.56	*	*	*	*	*	*	
	233	S-46	coal	175.00	69.60	181	10	67.30	4.38	1.19	9.14	0.78	0.10	424	0.49	43	19	38	26.41	12.70	*	
	234	S-47	coal	150.00	66.00	223	10	76.25	3.75	0.88	6.54	0.59	0.06	425	0.51	57	26	17	22.96	7.04	*	
	235	S-48	coal	125.00	64.90	370	*	*	*	*	*	*	*	423	0.45	40	39	21	23.78	12.92	*	
	236	S-49	coal	150.00	64.90	293	8	*	*	*	*	*	*	421	0.45	*	*	*	*	*	*	
	237	S-50	coal	0.00	54.60	168	8	*	*	*	*	*	*	423	0.63	*	*	*	*	*	*	
	238	WAK12-1	coal	688.00	*	*	*	*	*	*	*	*	*	*	*	0.67	*	*	*	*	*	*

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				(m)	(%)	(mg HC g C <sub>org</sub> )	(mgCO <sub>2</sub> g C <sub>org</sub> )	(%)	(%)	(%)	(%)	Atomic ratio	Atomic ratio	(°C)	(%)	(%,mmf)	(%,mmf)	(%,mmf)	(cm <sup>3</sup> /g)	(dry %)	(L/g)
A M A S R A	239	WAK12-2	coal	750.00	*	*	*	*	*	*	*	*	*	*	0.67	*	*	*	*	*	*
	240	WAK12-3	coal	803.00	*	*	*	*	*	*	*	*	*	*	0.75	*	*	*	*	*	*
	241	WAK12-4	coal	835.00	*	*	*	*	*	*	*	*	*	*	0.77	*	*	*	*	*	*
	242	WAK12-5	coal	848.00	*	*	*	*	*	*	*	*	*	*	0.77	*	*	*	*	*	*
	243	WAK12-6	coal	956.00	*	*	*	*	*	*	*	*	*	*	0.67	*	*	*	*	*	*
	244	WAK12-7	coal	966.00	*	*	*	*	*	*	*	*	*	*	0.80	*	*	*	*	*	*
	245	WAK12-8	coal	978.00	*	*	*	*	*	*	*	*	*	*	0.75	*	*	*	*	*	*
	246	WAK12-9	coal	1079.00	*	*	*	*	*	*	*	*	*	*	0.76	*	*	*	*	*	*
	247	WAK12-10	coal	1169.00	*	*	*	*	*	*	*	*	*	*	0.77	*	*	*	*	*	*
	248	WAK12-11	coal	1224.00	*	*	*	*	*	*	*	*	*	*	0.77	*	*	*	*	*	*
	249	WAK12-12	coal	1291.00	*	*	*	*	*	*	*	*	*	*	0.78	*	*	*	*	*	*
	250	WAK12-13	coal	1279.00	*	*	*	*	*	*	*	*	*	*	0.76	*	*	*	*	*	*
	251	WAK12-14	coal	1367.00	*	*	*	*	*	*	*	*	*	*	0.79	*	*	*	*	*	*
	252	WAK12-15	coal	1393.00	*	*	*	*	*	*	*	*	*	*	0.77	*	*	*	*	*	*
	253	WAK12-16	coal	1500.00	*	*	*	*	*	*	*	*	*	*	0.81	*	*	*	*	*	*
	254	WAK12-17	coal	1535.00	*	*	*	*	*	*	*	*	*	*	0.84	*	*	*	*	*	*
	255	WAK12-18	coal	1616.00	*	*	*	*	*	*	*	*	*	*	0.87	*	*	*	*	*	*