
Appendix I

Sample number (canister number), name of cored coal, cored interval (canister top and bottom depths), moisture, proximate and ultimate analysis, calorific value, moist, mineral-matter-free Btu, apparent rank, apparent specific gravity, and forms of sulfur for samples from core holes in the Powder River, Green River, and Williston Basins, Wyoming and North Dakota. Locations of core holes shown in figure 1 of text.

Core Hole 1. Analyses for samples from the MichiWest Energy Inc., Pilot 16-14 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
1	1,213.0	1,215.0	Big George	7.24	11.30	17.72	----	11.43	----	----	----	----	----
2	1,215.0	1,217.0	Big George	11.71	9.39	20.00	----	4.87	----	----	----	----	----
3	1,217.0	1,219.0	Big George	9.21	12.36	20.43	----	2.71	----	----	----	----	----
4	1,219.0	1,221.0	Big George	11.08	10.11	20.07	----	3.00	----	----	----	----	----
5	1,221.0	1,223.0	Big George	11.18	7.09	17.48	18.63	2.67	40.54	39.31	10,670	10,990	SubA
6	1,223.0	1,225.0	Big George	8.50	10.79	18.37	----	2.93	----	----	----	----	----
7	1,225.0	1,227.0	Big George	10.49	9.23	18.75	----	9.47	----	----	----	----	----
9	1,229.0	1,231.0	Big George	3.91	13.43	16.81	----	29.50	----	----	----	----	----
10	1,231.0	1,233.0	Big George	10.69	10.03	19.65	18.71	3.57	33.80	42.98	10,270	10,690	SubA
11	1,233.0	1,235.0	Big George	11.64	11.39	21.70	----	2.45	----	----	----	----	----
12	1,235.0	1,237.0	Big George	11.01	8.61	18.67	----	2.48	----	----	----	----	----
13	1,237.0	1,239.0	Big George	9.44	11.79	20.12	----	1.77	----	----	----	----	----
14	1,239.0	1,241.0	Big George	10.84	11.41	21.01	----	2.15	----	----	----	----	----
15	1,242.5	1,244.5	Big George	6.47	14.18	19.73	----	2.42	----	----	----	----	----
16	1,244.5	1,246.7	Big George	7.73	9.66	16.64	----	3.77	----	----	----	----	----
17	1,246.7	1,248.8	Big George	5.89	13.46	18.56	----	7.17	----	----	----	----	----
18	1,248.8	1,250.8	Big George	11.71	7.79	18.59	17.66	3.69	38.88	38.84	10,360	10,790	SubA
19	1,250.8	1,252.8	Big George	9.85	12.38	21.01	----	1.74	----	----	----	----	----
20	1,252.8	1,254.9	Big George	6.04	13.33	18.56	----	2.43	----	----	----	----	----
21	1,254.9	1,257.0	Big George	10.22	11.92	20.92	----	2.09	----	----	----	----	----
22	1,257.0	1,259.0	Big George	9.92	12.51	21.19	----	3.89	----	----	----	----	----
23	1,259.0	1,261.0	Big George	5.95	14.49	19.58	----	3.21	----	----	----	----	----
24	1,261.0	1,263.0	Big George	8.13	12.46	19.58	----	2.15	----	----	----	----	----
25	1,272.0	1,274.0	Big George	8.93	11.75	19.63	----	2.74	----	----	----	----	----
26	1,274.0	1,276.0	Big George	6.68	13.40	19.18	----	2.96	----	----	----	----	----
27	1,276.0	1,278.0	Big George	9.07	10.74	18.84	----	3.03	----	----	----	----	----
28	1,278.0	1,280.0	Big George	6.50	12.26	17.96	----	3.85	----	----	----	----	----
29	1,280.0	1,282.0	Big George	8.26	8.21	15.79	----	3.67	----	----	----	----	----
30	1,282.0	1,284.0	Big George	8.80	11.00	18.83	----	2.32	----	----	----	----	----
31	1,284.0	1,286.0	Big George	9.40	10.67	19.07	----	2.68	36.91	41.34	10,450	10,770	SubA
35	1,287.0	1,289.0	Big George	8.67	9.24	17.11	18.93	2.72	----	----	----	----	----
36	1,289.0	1,291.0	Big George	7.29	11.46	17.91	----	2.75	----	----	----	----	----
37	1,291.0	1,293.0	Big George	9.01	8.82	17.04	----	3.95	----	----	----	----	----

Core Hole 1. Analyses for samples from the MichiWest Energy Inc., Pilot 16-14 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
38	1,293.0	1,295.0	Big George	9.08	9.65	17.85	----	4.43	----	----	----	----	----
32	1,303.0	1,305.0	Big George	6.89	14.08	20.00	----	2.34	----	----	----	----	----
33	1,305.0	1,307.0	Big George	9.81	8.91	17.85	----	2.57	----	----	----	----	----
34	1,307.0	1,309.0	Big George	12.83	6.98	18.91	----	2.22	----	----	----	----	----
39	1,309.0	1,311.0	Big George	7.43	12.97	19.44	----	2.05	----	----	----	----	----
40	1,311.0	1,313.0	Big George	9.63	10.42	19.05	----	2.21	----	----	----	----	----
41	1,313.0	1,315.0	Big George	13.43	7.81	20.19	----	2.63	----	----	----	----	----
42	1,315.0	1,317.0	Big George	7.26	15.23	21.38	----	2.50	----	----	----	----	----
43	1,317.0	1,319.0	Big George	12.50	9.84	21.11	----	2.46	----	----	----	----	----
44	1,319.0	1,321.0	Big George	10.49	9.86	19.32	----	1.93	----	----	----	----	----
45	1,321.0	1,323.0	Big George	12.72	8.50	20.14	----	1.58	----	----	----	----	----
46	1,323.0	1,325.0	Big George	8.45	12.61	19.99	----	2.36	----	----	----	----	----
47	1,325.0	1,327.0	Big George	9.17	17.51	25.07	----	10.10	----	----	----	----	----
48	1,332.0	1,334.0	Big George	11.68	8.98	19.61	18.77	2.46	32.70	45.23	10,470	10,760	SubA
49	1,335.0	1,337.0	Big George	10.54	8.61	18.24	----	4.66	----	----	----	----	----
50	1,337.0	1,339.0	Big George	9.93	13.17	21.79	----	2.52	----	----	----	----	----
51	1,339.0	1,341.0	Big George	9.59	8.93	17.66	----	2.15	----	----	----	----	----
52	1,341.0	1,343.0	Big George	10.44	6.42	16.19	----	2.55	----	----	----	----	----
53	1,343.0	1,345.0	Big George	8.09	10.74	17.96	----	2.09	----	----	----	----	----
54	1,345.0	1,347.0	Big George	10.67	6.44	16.42	----	2.69	----	----	----	----	----
55	1,347.0	1,349.0	Big George	10.95	10.85	20.61	----	3.44	----	----	----	----	----
56	1,349.0	1,351.0	Big George	13.40	8.97	21.17	----	2.00	----	----	----	----	----
57	1,351.0	1,353.0	Big George	10.77	11.96	21.44	19.53	2.17	30.89	45.50	10,160	10,410	SubB
58	1,353.0	1,355.0	Big George	12.41	7.12	18.65	----	3.05	----	----	----	----	----
59	1,355.0	1,357.0	Big George	13.76	6.45	19.32	----	2.23	----	----	----	----	----
61	1,357.0	1,359.0	Big George	12.30	7.36	18.75	----	2.45	----	----	----	----	----
64	1,359.0	1,361.0	Big George	9.90	9.77	18.70	17.26	4.11	33.12	44.07	10,410	10,900	SubA

Core Hole 1. Analyses for samples from the MichiWest Energy Inc., Pilot 16-14 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
1	5.58	51.04	0.83	6.15	24.97	----	----	----	----
2	6.04	56.96	0.94	1.94	29.25	----	----	----	----
3	6.18	58.47	1.05	0.69	30.90	----	----	----	----
4	5.95	59.05	0.98	0.27	30.75	----	----	----	----
5	6.20	61.67	1.06	0.18	28.22	0.00	0.01	0.17	1.28
6	6.09	59.94	0.99	0.19	29.86	----	----	----	----
7	5.83	54.51	0.85	0.14	29.20	----	----	----	----
9	4.90	39.39	0.59	1.22	24.40	----	----	----	----
10	6.11	59.84	0.85	0.32	29.31	0.01	0.03	0.28	1.28
11	6.14	58.13	0.78	0.12	32.38	----	----	----	----
12	6.06	60.14	0.73	0.13	30.46	----	----	----	----
13	6.14	59.75	0.69	0.09	31.56	----	----	----	----
14	6.23	58.76	0.73	0.12	32.01	----	----	----	----
15	6.32	59.61	0.79	0.16	30.70	----	----	----	----
16	6.16	60.68	0.80	0.21	28.38	----	----	----	----
17	5.92	56.57	0.71	0.69	28.94	----	----	----	----
18	5.99	60.10	0.71	0.30	29.21	0.02	0.04	0.24	1.29
19	6.23	59.22	0.55	0.15	32.11	----	----	----	----
20	6.31	60.29	0.66	0.16	30.15	----	----	----	----
21	6.20	58.99	0.65	0.12	31.95	----	----	----	----
22	6.19	57.12	0.53	0.17	32.10	----	----	----	----
23	6.20	59.49	0.56	0.18	30.36	----	----	----	----
24	6.10	60.08	0.60	0.12	30.95	----	----	----	----
25	6.24	59.89	0.60	0.13	30.40	----	----	----	----
26	6.20	59.45	0.58	0.16	30.65	----	----	----	----
27	6.19	59.96	0.56	0.19	30.07	----	----	----	----
28	6.20	59.96	0.63	0.38	28.98	----	----	----	----
29	6.28	62.26	0.57	0.31	26.91	----	----	----	----
30	6.08	60.28	0.53	0.21	30.58	----	----	----	----
31	6.29	61.19	0.52	0.21	29.11	0.01	0.01	0.20	1.23
35	6.19	61.51	0.52	0.21	28.85	----	----	----	----
36	6.12	61.24	0.49	0.18	29.22	----	----	----	----
37	6.28	61.34	0.57	0.21	27.65	----	----	----	----

Core Hole 1. Analyses for samples from the MichiWest Energy Inc., Pilot 16-14 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
38	6.27	60.22	0.62	0.23	28.23	----	----	----	----
32	6.21	60.14	0.63	0.15	30.53	----	----	----	----
33	6.09	61.56	0.56	0.15	29.07	----	----	----	----
34	6.10	61.01	0.48	0.12	30.07	----	----	----	----
39	6.24	60.66	0.59	0.11	30.35	----	----	----	----
40	6.05	61.35	0.62	0.13	29.64	----	----	----	----
41	6.05	60.15	0.55	0.11	30.51	----	----	----	----
42	5.94	59.10	0.65	0.08	31.73	----	----	----	----
43	5.99	59.73	0.56	0.09	31.17	----	----	----	----
44	5.95	61.19	0.60	0.10	30.23	----	----	----	----
45	6.01	60.79	0.56	0.11	30.95	----	----	----	----
46	6.02	60.07	0.66	0.20	30.69	----	----	----	----
47	6.06	48.64	0.61	0.94	33.65	----	----	----	----
48	5.97	62.03	0.68	0.11	28.75	----	----	----	1.28
49	5.53	58.86	0.64	0.10	30.21	----	----	----	----
50	6.20	58.98	0.78	0.17	31.35	----	----	----	----
51	6.21	62.40	0.80	0.15	28.29	----	----	----	----
52	6.25	63.17	0.72	0.18	27.13	----	----	----	----
53	6.15	61.70	0.87	0.13	29.06	----	----	----	----
54	6.25	62.96	0.73	0.22	27.15	----	----	----	----
55	5.81	61.38	0.65	0.11	28.61	----	----	----	----
56	5.90	59.68	0.66	0.09	31.67	----	----	----	----
57	6.03	60.70	0.75	0.08	30.27	----	----	----	1.28
58	5.81	60.90	0.77	0.09	29.38	----	----	----	----
59	5.88	61.32	0.80	0.09	29.68	----	----	----	----
61	6.02	61.46	0.80	0.09	29.18	----	----	----	----
64	5.95	61.04	0.77	0.13	28.00	----	----	----	1.31

Core Hole 2. Analyses for samples from the MichiWest Energy Inc., Pilot 16-32 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
1	1,077.0	1,079.0	Big George	6.51	14.81	20.36	----	3.00	----	----	----	----	----
2	1,081.0	1,083.0	Big George	7.00	13.24	19.31	----	2.56	36.28	41.85	10,350	10,650	SubA
3	1,083.0	1,085.0	Big George	7.66	12.45	19.16	----	2.50	----	----	----	----	----
4	1,085.0	1,087.0	Big George	5.31	15.25	19.75	----	2.22	----	----	----	----	----
5	1,087.0	1,089.0	Big George	7.81	11.59	18.49	----	3.49	----	----	----	----	----
6	1,089.0	1,091.0	Big George	7.80	12.40	19.23	----	2.64	36.92	41.21	10,490	10,800	SubA
7	1,092.0	1,094.0	Big George	7.29	14.03	20.30	----	3.65	----	----	----	----	----
8	1,094.0	1,096.0	Big George	6.94	14.46	20.40	----	3.00	----	----	----	----	----
11	1,096.0	1,098.0	Big George	7.69	14.32	20.91	----	2.22	----	----	----	----	----
12	1,098.0	1,100.0	Big George	5.68	15.80	20.58	----	2.04	----	----	----	----	----
13	1,100.0	1,102.0	Big George	8.25	13.25	20.41	----	3.28	----	----	----	----	----
14	1,102.0	1,104.0	Big George	7.04	13.96	20.02	----	1.92	34.41	43.65	10,310	10,530	SubA
15	1,106.0	1,108.0	Big George	6.36	12.73	18.28	----	4.81	----	----	----	----	----
16	1,108.0	1,110.0	Big George	6.42	13.90	19.43	----	5.11	----	----	----	----	----
18	1,110.0	1,112.0	Big George	8.93	13.93	21.62	----	2.85	----	----	----	----	----
19	1,112.0	1,114.0	Big George	6.44	14.92	20.40	----	2.00	----	----	----	----	----
20	1,114.0	1,116.0	Big George	8.86	12.96	20.67	----	2.15	----	----	----	----	----
21	1,116.0	1,118.0	Big George	7.72	12.49	19.25	----	2.63	36.20	41.92	10,440	10,750	SubA
25	1,121.0	1,123.0	Big George	6.87	12.75	18.74	----	3.91	----	----	----	----	----
26	1,123.0	1,125.0	Big George	8.14	15.42	22.30	----	2.44	----	----	----	----	----
27	1,125.0	1,127.0	Big George	9.15	12.55	20.55	----	2.18	----	----	----	----	----
28	1,127.0	1,129.0	Big George	10.13	11.51	20.47	----	2.53	----	----	----	----	----
30	1,129.0	1,131.0	Big George	9.56	13.13	21.43	----	2.61	----	----	----	----	----
32	1,131.0	1,133.0	Big George	9.72	11.59	20.18	----	2.17	----	----	----	----	----
38	1,136.0	1,138.0	Big George	7.50	12.28	18.86	----	3.21	35.71	42.22	10,290	10,660	SubA
39	1,138.0	1,140.0	Big George	7.28	13.27	19.58	----	6.05	----	----	----	----	----
40	1,140.0	1,142.0	Big George	9.13	11.80	19.85	----	3.13	----	----	----	----	----
42	1,142.0	1,144.0	Big George	6.28	15.38	20.69	----	2.41	----	----	----	----	----
47	1,144.0	1,146.0	Big George	7.67	16.20	22.63	----	1.52	31.23	44.62	9,980	10,140	SubB
50	1,149.0	1,151.0	Big George	8.40	11.92	19.32	----	2.52	----	----	----	----	----
51	1,151.0	1,153.0	Big George	4.93	12.58	16.89	----	4.35	----	----	----	----	----
53	1,153.0	1,155.0	Big George	8.05	9.46	16.75	----	5.02	----	----	----	----	----
60	1,155.0	1,157.0	Big George	7.60	13.35	19.94	----	2.13	----	----	----	----	----

Core Hole 2. Analyses for samples from the MichiWest Energy Inc., Pilot 16-32 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
62	1,157.0	1,159.0	Big George	8.06	12.89	19.91	----	3.30	34.72	42.07	10,200	10,580	SubA
63	1,159.0	1,161.0	Big George	5.86	12.99	18.09	----	4.86	34.64	42.41	10,070	10,630	SubA
65	1,164.0	1,166.0	Big George	8.85	12.54	20.28	----	5.41	----	----	----	----	----
66	1,166.0	1,168.0	Big George	6.97	15.17	21.08	----	4.11	----	----	----	----	----
67	1,168.0	1,170.0	Big George	8.52	12.70	20.14	----	4.46	----	----	----	----	----
68	1,170.0	1,172.0	Big George	7.42	14.98	21.29	----	2.17	----	----	----	----	----
69	1,172.0	1,174.0	Big George	8.12	13.41	20.44	----	1.56	----	----	----	----	----
70	1,174.0	1,176.0	Big George	7.39	13.23	19.64	----	3.04	----	----	----	----	----
71	1,182.0	1,184.5	Big George	7.23	9.68	16.21	----	3.79	----	----	----	----	----
72	1,184.5	1,186.5	Big George	6.37	14.51	19.96	----	5.31	----	----	----	----	----
73	1,186.5	1,188.5	Big George	8.06	12.27	19.34	----	2.41	30.20	48.05	10,390	10,670	SubA
74	1,189.5	1,191.5	Big George	6.31	14.11	19.53	----	1.87	34.07	44.53	10,500	10,720	SubA
75	1,191.5	1,193.5	Big George	5.53	8.75	13.80	----	13.95	----	----	----	----	----
76	1,196.5	1,198.9	Big George	6.29	15.32	20.65	----	6.40	----	----	----	----	----
A1	1,199.0	1,203.0	Big George	7.98	12.93	19.88	----	1.92	----	----	----	----	----
A2	1,209.0	1,211.0	Big George	7.74	14.49	21.11	----	3.98	----	----	----	----	----
A3	1,213.0	1,215.0	Big George	8.09	13.80	20.77	----	2.31	----	----	----	----	----

Core Hole 2. Analyses for samples from the MichiWest Energy Inc., Pilot 16-32 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
1	6.10	58.72	1.05	0.46	30.67	0.01	0.05	0.40	----
2	6.06	59.99	1.05	0.23	30.11	0.01	0.01	0.21	----
3	6.32	59.95	0.99	0.22	30.02	0.01	0.01	0.20	----
4	6.35	59.83	1.06	0.20	30.34	0.00	0.01	0.19	----
5	6.35	60.09	0.95	0.27	28.85	0.03	0.00	0.24	----
6	6.21	60.54	0.95	0.29	29.37	0.02	0.01	0.26	----
7	6.06	58.41	0.81	0.53	30.54	0.03	0.12	0.37	----
8	6.05	59.20	0.83	0.23	30.69	0.01	0.01	0.21	----
11	6.16	59.63	0.81	0.11	31.07	0.01	0.01	0.09	----
12	6.35	59.43	0.76	0.13	31.29	0.01	0.00	0.12	----
13	6.20	58.29	0.70	0.10	31.43	0.01	0.01	0.08	----
14	6.04	60.39	0.71	0.13	30.81	0.02	0.00	0.11	----
15	6.15	59.43	0.72	0.23	28.66	0.04	0.01	0.18	----
16	5.96	57.87	0.67	0.68	29.71	0.02	0.14	0.52	----
18	6.22	58.39	0.70	0.21	31.63	0.02	0.01	0.18	----
19	6.32	59.66	0.62	0.13	31.27	0.01	0.01	0.12	----
20	6.46	60.21	0.57	0.11	30.50	0.03	0.01	0.07	----
21	6.09	60.47	0.65	0.20	29.96	0.05	0.01	0.14	----
25	6.16	59.84	0.65	0.18	29.26	0.03	0.01	0.14	----
26	6.18	58.58	0.60	0.15	32.05	0.01	0.00	0.14	----
27	6.27	59.70	0.59	0.11	31.15	0.02	0.00	0.09	----
28	6.23	59.85	0.56	0.12	30.71	0.04	0.01	0.07	----
30	6.18	58.64	0.55	0.12	31.90	0.03	0.01	0.08	----
32	6.28	60.27	0.60	0.13	30.55	0.05	0.01	0.08	----
38	5.95	60.36	0.57	0.18	29.73	0.02	0.01	0.15	----
39	5.91	56.57	0.55	0.24	30.68	0.01	0.01	0.21	----
40	6.27	59.60	0.57	0.30	30.13	0.01	0.02	0.27	----
42	6.22	59.53	0.56	0.27	31.01	0.00	0.01	0.26	----
47	6.09	58.89	0.39	0.19	32.92	0.01	0.01	0.17	----
50	6.24	60.36	0.69	0.18	30.01	0.02	0.01	0.16	----
51	6.14	61.32	0.74	0.22	27.23	0.01	0.01	0.20	----
53	6.06	60.80	0.72	0.24	27.16	0.02	0.01	0.22	----
60	6.12	60.56	0.64	0.17	30.38	0.01	0.01	0.15	----

Core Hole 2. Analyses for samples from the MichiWest Energy Inc., Pilot 16-32 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
62	6.22	58.99	0.64	0.21	30.64	0.02	0.01	0.18	----
63	5.85	59.21	0.64	0.17	29.27	0.02	0.01	0.14	----
65	5.86	56.76	0.63	1.36	29.98	0.14	0.75	0.47	----
66	5.89	57.02	0.82	1.26	30.90	0.09	0.56	0.60	----
67	5.72	58.85	0.72	0.33	29.92	0.01	0.01	0.31	----
68	5.87	59.68	0.71	0.21	31.36	0.01	0.01	0.19	----
69	5.96	60.59	0.68	0.20	31.01	0.01	0.01	0.18	----
70	5.70	61.16	0.77	0.23	29.10	0.01	0.00	0.22	----
71	6.02	62.70	0.93	0.42	26.14	0.01	0.00	0.41	----
72	5.73	58.80	0.90	0.31	28.95	0.01	0.02	0.29	----
73	5.51	62.05	0.77	0.25	29.01	0.00	0.01	0.24	----
74	5.90	61.98	0.81	0.40	29.04	0.01	0.00	0.39	----
75	5.06	54.06	0.81	2.92	23.20	0.27	1.73	0.92	----
76	5.53	57.17	0.76	0.41	29.73	0.01	0.01	0.39	----
A1	5.94	61.50	0.79	0.29	29.56	0.01	0.00	0.28	----
A2	5.97	58.97	0.97	0.22	29.89	0.01	0.01	0.20	----
A3	6.24	60.06	0.82	0.27	30.30	0.01	0.01	0.25	----

Core Hole 3. Analyses for samples from the Ocean Energy Inc. Schlautmann 9-10-45-74WY (Ocean 43-10C) core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
17	1,190.0	1,192.0	Anderson	15.98	13.26	27.12	----	2.98	----	----	----	----	----
A4	1,192.0	1,194.0	Anderson	4.65	24.91	28.40	26.40	9.62	28.44	33.56	7,790	8,690	SubC

Core Hole 3. Analyses for samples from the Ocean Energy Inc. Schlautmann 9-10-45-74WY (Ocean 43-10C) core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
17	6.65	51.77	0.56	0.25	37.79	----	----	----	----
A4	6.20	45.78	0.52	0.18	37.70	----	----	----	----

Core Hole 4. Analyses for samples from the Pennaco Energy, Inc., Sorenson 2-33-54-74 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
A5	815.0	817.0	Cook	7.51	21.77	27.65	----	3.97	----	----	----	----	----
A6	817.0	819.0	Cook	8.09	22.15	28.45	----	3.57	----	----	----	----	----
A7	819.0	821.0	Cook	6.28	25.71	30.38	----	2.86	----	----	----	----	----
A8	821.0	823.0	Cook	10.43	20.86	29.11	----	3.59	----	----	----	----	----
A9	823.0	825.0	Cook	7.52	22.66	28.48	----	5.99	----	----	----	----	----
A10	825.0	827.0	Cook	9.68	20.37	28.08	----	6.99	----	----	----	----	----
A11	827.0	829.0	Cook	7.03	22.93	24.48	----	4.42	----	----	----	----	----
A12	830.0	832.0	Cook	8.45	22.80	29.32	----	3.74	----	----	----	----	----
A13	832.0	834.0	Cook	8.49	20.81	27.53	----	3.98	----	----	----	----	----
A14	834.0	836.0	Cook	1.81	14.10	15.65	----	67.54	----	----	----	----	----
A15	1,141.0	1,143.0	Wall	7.84	18.65	25.03	----	7.47	----	----	----	----	----
A16	1,143.0	1,145.0	Wall	8.64	18.63	25.66	----	4.29	----	----	----	----	----
A17	1,145.0	1,147.0	Wall	8.57	19.40	26.31	----	5.52	----	----	----	----	----
A18	1,147.0	1,149.0	Wall	12.71	16.42	27.04	----	4.09	----	----	----	----	----
A19	1,149.0	1,151.0	Wall	7.80	20.45	26.65	----	2.56	----	----	----	----	----
A20	1,151.0	1,153.0	Wall	11.92	16.53	26.48	----	3.41	----	----	----	----	----
A21	1,153.0	1,155.0	Wall	7.05	19.63	25.30	----	5.35	----	----	----	----	----
A22	1,155.0	1,157.0	Wall	10.61	15.21	24.21	----	4.43	33.36	38.00	9,440	9,910	SubB
A23	1,157.0	1,159.0	Wall	8.99	15.97	23.52	----	4.03	----	----	----	----	----
A24	1,160.0	1,162.0	Wall	9.67	14.98	23.20	----	6.72	----	----	----	----	----
A25	1,168.0	1,170.0	Wall	7.70	19.48	25.68	----	4.45	----	----	----	----	----
A26	1,170.0	1,172.0	Wall	12.70	15.42	26.16	----	4.66	----	----	----	----	----
B1	1,178.0	1,180.1	Wall	7.01	16.79	22.62	----	13.62	----	----	----	----	----
B2	1,180.1	1,182.2	Wall	12.81	15.25	26.11	----	5.37	----	----	----	----	----
B3	1,182.2	1,184.3	Wall	10.12	17.30	25.67	----	6.42	----	----	----	----	----
B4	1,184.3	1,186.4	Wall	11.71	17.80	27.43	----	5.19	----	----	----	----	----

Core Hole 4. Analyses for samples from the Pennaco Energy, Inc., Sorenson 2-33-54-74 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
A5	6.56	52.91	0.95	0.15	35.46	----	----	----	----
A6	6.56	52.24	0.86	0.10	36.67	----	----	----	----
A7	6.64	51.44	0.83	0.11	38.12	----	----	----	----
A8	6.69	51.46	0.84	0.19	37.23	----	----	----	----
A9	6.30	50.22	0.77	0.19	36.53	----	----	----	----
A10	6.26	50.21	0.80	0.22	35.52	----	----	----	----
A11	6.40	52.41	0.82	0.39	35.56	----	----	----	----
A12	6.51	52.04	0.81	0.20	36.70	----	----	----	----
A13	6.68	52.39	0.88	0.49	35.58	----	----	----	----
A14	2.75	10.15	0.21	0.15	19.20	----	----	----	----
A15	5.81	53.48	0.83	0.86	31.55	----	----	----	----
A16	6.17	54.83	0.89	0.61	33.21	----	----	----	----
A17	6.29	53.32	0.89	0.77	33.21	----	----	----	----
A18	6.42	53.60	0.92	0.48	34.49	----	----	----	----
A19	6.55	54.41	0.93	0.21	35.34	----	----	----	----
A20	6.52	54.56	0.91	0.21	34.39	----	----	----	----
A21	6.32	53.76	0.86	0.30	33.41	----	----	----	----
A22	6.37	54.83	0.91	0.40	33.06	----	----	----	----
A23	6.37	56.28	0.92	0.20	32.20	----	----	----	----
A24	6.28	54.33	0.85	0.20	31.62	----	----	----	----
A25	6.34	53.60	0.91	0.19	34.51	----	----	----	----
A26	6.46	53.35	0.85	0.18	34.50	----	----	----	----
B1	5.93	48.95	0.82	0.42	30.26	----	----	----	----
B2	6.26	52.70	0.85	0.17	34.65	----	----	----	----
B3	6.18	51.97	0.88	0.20	34.35	----	----	----	----
B4	6.36	51.82	0.80	0.15	35.68	----	----	----	----

Core Hole 5. Analyses for samples from the Barrett Resources Corporation, Haas 32-31 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal, SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
1	1,051.0	1,053.0	Big George	8.04	20.20	26.62	----	4.55	----	----	----	----	----
2	1,053.0	1,055.0	Big George	12.53	13.80	24.60	----	5.72	----	----	----	----	----
3	1,055.0	1,057.0	Big George	7.34	19.11	25.05	----	4.41	33.44	37.10	8,970	9,420	SubC
4	1,057.0	1,059.0	Big George	11.75	16.49	26.30	----	3.48	----	----	----	----	----
5	1,059.0	1,061.0	Big George	7.63	19.92	26.03	----	3.59	----	----	----	----	----
6	1,061.0	1,063.0	Big George	10.60	18.02	26.71	----	3.68	----	----	----	----	----
7	1,063.0	1,065.0	Big George	9.92	18.11	26.23	----	4.91	----	----	----	----	----
8	1,065.0	1,067.0	Big George	12.32	16.90	27.14	----	3.41	----	----	----	----	----
11	1,067.0	1,069.0	Big George	12.75	17.36	27.90	----	3.64	----	----	----	----	----
12	1,069.0	1,071.0	Big George	12.84	16.85	27.53	----	3.91	----	----	----	----	----
13	1,071.0	1,073.0	Big George	9.49	17.68	25.49	----	3.53	----	----	----	----	----
14	1,073.0	1,075.0	Big George	13.03	17.11	27.91	----	3.28	32.61	36.20	8,870	9,190	SubC
15	1,075.0	1,077.0	Big George	12.03	15.80	25.93	----	3.30	----	----	----	----	----
18	1,366.0	1,368.0	Wyodak	11.01	15.22	24.55	----	4.40	----	----	----	----	----
19	1,368.0	1,370.0	Wyodak	9.94	11.42	20.22	----	12.14	----	----	----	----	----
20	1,370.0	1,372.0	Wyodak	8.26	16.95	23.81	----	5.15	----	----	----	----	----
21	1,372.0	1,374.0	Wyodak	13.41	12.41	24.16	----	4.46	----	----	----	----	----
25	1,374.0	1,376.0	Wyodak	7.43	16.79	22.97	----	4.17	----	----	----	----	----
26	1,376.0	1,378.0	Wyodak	9.30	13.90	21.91	----	4.64	36.84	36.61	9,780	10,300	SubB
27	1,378.0	1,380.0	Wyodak	8.98	17.66	25.05	----	3.08	----	----	----	----	----
28	1,380.0	1,382.0	Wyodak	10.37	16.22	24.91	----	3.54	----	----	----	----	----
30	1,382.0	1,384.0	Wyodak	9.24	16.90	24.58	----	4.26	----	----	----	----	----
32	1,385.0	1,387.0	Wyodak	10.31	14.68	23.48	----	4.54	----	----	----	----	----
38	1,387.0	1,389.0	Wyodak	7.01	16.19	22.07	----	20.15	----	----	----	----	----
39	1,389.0	1,391.0	Wyodak	10.06	17.12	25.46	----	3.12	----	----	----	----	----
40	1,391.0	1,393.0	Wyodak	7.72	18.36	24.66	----	2.97	31.93	40.44	9,360	9,690	SubB
42	1,393.0	1,395.0	Wyodak	8.92	16.98	24.39	----	3.32	----	----	----	----	----
47	1,395.0	1,397.0	Wyodak	8.22	18.61	25.30	----	2.52	----	----	----	----	----
50	1,397.0	1,399.0	Wyodak	9.68	16.52	24.60	----	2.89	----	----	----	----	----
51	1,402.0	1,404.0	Wyodak	10.35	16.55	25.19	----	3.29	----	----	----	----	----
53	1,404.0	1,406.0	Wyodak	7.88	20.31	26.59	----	2.50	----	----	----	----	----
69	1,406.0	1,408.0	Wyodak	9.81	17.89	25.94	----	1.79	----	----	----	----	----

Core Hole 5. Analyses for samples from the Barrett Resources Corporation, Haas 32-31 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
62	1,408.0	1,410.0	Wyodak	10.18	18.92	27.17	----	2.51	----	----	----	----	----
63	1,410.0	1,412.0	Wyodak	9.62	19.96	27.66	----	2.57	----	----	----	----	----
65	1,412.0	1,414.0	Wyodak	11.52	16.75	26.34	----	2.41	----	----	----	----	----
66	1,414.0	1,416.0	Wyodak	9.49	17.54	25.37	----	3.13	34.33	37.17	9,180	9,500	SubB
67	1,416.0	1,418.0	Wyodak	11.26	14.64	24.25	----	4.33	----	----	----	----	----

Core Hole 5. Analyses for samples from the Barrett Resources Corporation, Haas 32-31 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
1	6.43	51.59	0.58	0.46	36.39	----	----	----	----
2	6.44	52.23	0.62	0.46	34.53	----	----	----	----
3	6.45	52.86	0.64	0.31	35.33	0.02	0.01	0.28	----
4	6.58	52.85	0.53	0.27	36.29	----	----	----	----
5	6.53	52.64	0.58	0.22	36.44	----	----	----	----
6	6.53	52.20	0.59	0.23	36.77	----	----	----	----
7	6.37	51.55	0.55	0.15	36.47	----	----	----	----
8	6.56	52.30	0.57	0.13	37.03	----	----	----	----
11	6.55	51.53	0.54	0.12	37.62	----	----	----	----
12	6.54	51.95	0.60	0.12	36.88	----	----	----	----
13	6.69	53.48	0.63	0.12	35.55	----	----	----	----
14	6.69	51.89	0.58	0.12	37.44	0.02	0.00	0.10	----
15	6.64	53.26	0.64	0.16	36.00	----	----	----	----
18	6.40	54.40	0.66	0.25	33.89	----	----	----	----
19	6.15	51.77	0.66	0.37	28.91	----	----	----	----
20	6.36	54.61	0.66	0.26	32.96	----	----	----	----
21	6.31	55.23	0.66	0.18	33.16	----	----	----	----
25	6.44	56.22	0.67	0.16	32.34	0.01	0.01	0.14	----
26	6.38	56.84	0.63	0.20	31.31	----	----	----	----
27	6.40	55.48	0.60	0.15	34.29	----	----	----	----
28	6.31	55.29	0.65	0.15	34.06	----	----	----	----
30	6.24	54.94	0.57	0.14	33.85	----	----	----	----
32	6.29	55.66	0.57	0.21	32.73	----	----	----	----
38	5.52	43.34	0.53	0.64	29.82	----	----	----	----
39	6.33	55.28	0.61	0.21	34.45	----	----	----	----
40	6.28	55.61	0.60	0.14	34.40	0.02	0.03	0.10	----
42	6.26	55.30	0.54	0.12	34.46	----	----	----	----
47	6.33	55.06	0.55	0.18	35.36	----	----	----	----
50	6.40	55.43	0.51	0.13	34.64	----	----	----	----
51	6.18	55.24	0.60	0.09	34.60	----	----	----	----
53	6.27	54.79	0.62	0.09	35.73	----	----	----	----
69	6.31	55.12	0.50	0.10	36.18	----	----	----	----

Core Hole 5. Analyses for samples from the Barrett Resources Corporation, Haas 32-31 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
62	6.26	53.67	0.48	0.02	37.06	----	----	----	----
63	6.30	53.71	0.58	0.09	36.75	----	----	----	----
65	6.30	54.51	0.53	0.08	36.17	0.01	0.01	0.06	----
66	6.33	54.59	0.58	0.16	35.21	----	----	----	----
67	6.23	55.11	0.61	0.25	33.47	----	----	----	----

Core Hole 6. Analyses for samples from the CMS Oil and Gas Company, West 6-19 W core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
70	631.0	633.0	Canyon	8.93	21.56	28.56	----	6.96	----	----	----	----	----
71	633.0	635.0	Canyon	9.97	24.82	32.32	----	10.51	27.18	29.99	7,250	8,180	SubC
72	647.0	649.0	Canyon	9.60	24.74	31.96	----	3.86	----	----	----	----	----
73	649.0	651.2	Canyon	11.18	24.35	32.81	----	3.56	----	----	----	----	----
74	656.0	658.0	Canyon	8.64	27.68	33.93	----	3.73	----	----	----	----	----
75	658.0	660.0	Canyon	11.28	24.83	33.31	----	3.30	27.03	36.36	8,010	8,310	SubC
76	660.0	662.0	Canyon	10.02	23.49	31.16	----	4.45	----	----	----	----	----
A1	944.0	946.0	Cook	11.36	18.25	27.54	----	8.08	----	----	----	----	----
A2	946.0	948.0	Cook	9.63	22.56	31.02	----	3.45	----	----	----	----	----
A3	948.0	950.0	Cook	12.08	19.67	29.37	----	3.28	----	----	----	----	----
B5	950.0	952.0	Cook	8.70	21.49	28.32	----	3.65	29.30	38.73	8,600	8,950	SubC
B6	952.0	953.5	Cook	11.40	18.09	27.43	----	3.31	----	----	----	----	----
B7	954.0	956.0	Cook	11.10	15.88	25.22	----	6.81	31.75	36.22	8,740	9,430	SubC
B8	956.0	958.0	Cook	12.27	16.14	26.43	----	4.81	----	----	----	----	----
B9	958.0	960.0	Cook	10.43	18.33	26.85	----	2.95	----	----	----	----	----
B10	1,070.0	1,072.0	Wall	12.92	17.07	27.78	----	3.28	29.72	39.22	8,770	9,090	SubC
B11	1,072.0	1,074.0	Wall	11.82	18.85	28.44	----	2.61	----	----	----	----	----
B12	1,074.0	1,076.0	Wall	12.92	18.12	28.70	----	2.61	29.76	38.93	8,760	9,010	SubC
B13	1,076.0	1,078.0	Wall	10.03	16.26	24.66	----	14.17	----	----	----	----	----

Core Hole 6. Analyses for samples from the CMS Oil and Gas Company, West 6-19 W core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
70	6.59	48.89	0.89	0.78	35.89	0.02	0.22	0.53	----
71	6.52	42.86	0.77	0.38	38.96	0.02	0.04	0.32	----
72	6.56	48.13	0.74	0.14	40.57	0.01	0.01	0.11	----
73	6.76	48.14	0.71	0.13	40.70	0.02	0.02	0.08	----
74	6.70	47.02	0.74	0.32	41.49	0.01	0.18	0.13	----
75	6.60	48.39	0.77	0.20	40.74	0.01	0.07	0.11	----
76	6.70	48.41	0.79	0.37	39.28	0.01	0.12	0.24	----
A1	6.11	48.98	0.79	0.37	35.67	0.01	0.04	0.32	----
A2	6.51	50.81	0.81	0.15	38.27	0.00	0.01	0.14	----
A3	6.54	50.80	0.88	0.09	38.41	0.01	0.01	0.07	----
B5	6.39	51.32	0.86	0.09	37.69	0.02	0.01	0.06	----
B6	6.37	52.65	0.90	0.13	36.64	0.02	0.01	0.10	----
B7	6.26	51.44	0.83	0.15	34.51	0.01	0.01	0.13	----
B8	6.28	52.29	0.81	0.05	35.76	0.01	0.00	0.04	----
B9	6.57	52.86	0.88	0.12	36.62	0.01	0.01	0.11	----
B10	6.45	52.15	0.88	0.12	37.12	0.02	0.01	0.10	----
B11	6.52	52.00	0.88	0.11	37.88	0.03	0.01	0.07	----
B12	6.49	51.80	0.96	0.12	38.02	0.01	0.01	0.11	----
B13	5.81	45.90	0.84	0.23	33.05	0.02	0.02	0.19	----

Core Hole 7. Analyses for samples from the Gregory Water and Energy Inc., Leroy Gregory 1 core hole [---, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; LigA, Lignite A; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
B14	934.0	936.0	unnamed 1	11.34	23.17	31.88	---	7.70	30.49	29.93	7,740	8,440	SubC
B16	936.0	938.0	unnamed 1	17.53	19.81	33.87	---	8.18	---	---	---	---	---
B17	938.0	940.0	unnamed 1	12.29	22.26	31.81	---	8.04	---	---	---	---	---
B18	940.0	942.0	unnamed 1	16.09	21.84	34.42	---	8.47	---	---	---	---	---
B20	949.0	951.0	unnamed 1	12.33	22.86	32.37	---	15.06	25.73	26.84	6,500	7,750	LigA
B21	953.5	955.5	unnamed 1	8.66	19.14	26.14	---	41.09	---	---	---	---	---
B22	955.5	957.5	unnamed 1	16.88	16.71	30.77	---	12.92	30.34	25.97	7,230	8,410	SubC

Core Hole 7. Analyses for samples from the Gregory Water and Energy Inc., Leroy Gregory 1 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
B14	6.71	45.25	0.77	1.00	38.57	0.05	0.22	0.73	----
B16	6.41	43.08	0.75	0.56	41.02	0.03	0.16	0.37	----
B17	6.43	44.28	0.73	0.37	40.15	0.01	0.04	0.33	----
B18	6.39	41.63	0.68	0.32	42.51	0.01	0.11	0.20	----
B20	6.31	38.25	0.68	1.04	38.66	0.05	0.10	0.89	----
B21	4.58	22.19	0.40	2.24	29.50	0.62	0.95	0.67	----
B22	6.51	41.72	0.66	0.98	37.21	0.09	0.27	0.62	----

Core Hole 8. Analyses for samples from the CMS Oil and Gas Company, Laramore 11-6C core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
A7	343.0	345.0	Smith	10.92	13.20	22.68	----	16.54	----	----	----	----	----
A10	345.0	347.0	Smith	16.96	11.82	26.78	----	3.71	----	----	----	----	----
A11	347.0	349.0	Smith	12.49	16.33	26.78	----	4.37	----	----	----	----	----
A12	349.0	351.0	Smith	15.90	12.63	26.52	----	3.69	31.1	38.69	9,060	9,440	SubB
A13	351.0	353.0	Smith	12.24	16.78	26.97	----	2.97	----	----	----	----	----
A14	353.0	355.0	Smith	14.87	14.74	27.42	----	2.83	----	----	----	----	----
A15	355.0	357.0	Smith	16.58	14.33	28.53	----	2.72	----	----	----	----	----
A16	357.0	359.5	Smith	14.42	13.37	25.86	----	4.96	----	----	----	----	----
A17	359.5	361.5	Smith	14.85	13.92	26.70	----	6.49	----	----	----	----	----
A18	374.0	376.0	Smith	13.70	13.56	25.40	----	6.88	----	----	----	----	----
A19	376.0	378.0	Smith	13.78	14.56	26.33	----	4.85	32.61	36.21	8,960	9,460	SubC
A20	378.0	380.0	Smith	14.91	11.44	24.64	----	13.13	----	----	----	----	----
A23	380.0	382.0	Smith	14.05	13.59	25.73	----	5.00	----	----	----	----	----
A24	382.0	384.0	Smith	17.25	11.34	26.63	----	4.75	----	----	----	----	----
A25	384.0	386.0	Smith	14.62	12.03	24.89	----	5.10	35.53	34.48	9,220	9,760	SubB
C1	779.2	781.2	Anderson	6.04	19.45	24.32	----	3.36	----	----	----	----	----
C4	781.2	783.2	Anderson	9.44	17.16	24.98	----	2.64	----	----	----	----	----
C5	783.2	785.2	Anderson	6.50	20.97	26.11	----	2.51	----	----	----	----	----
C6	785.2	787.2	Anderson	8.09	20.45	26.89	----	3.88	----	----	----	----	----
C7	787.2	789.2	Anderson	7.01	20.63	26.19	----	2.44	----	----	----	----	----
C8	789.2	791.2	Anderson	8.47	19.21	26.05	----	2.68	----	----	----	----	----
C9	986.0	988.0	Canyon	8.31	17.09	23.98	----	2.65	30.69	42.68	9,750	10,040	SubB
C10	988.0	990.0	Canyon	6.11	19.44	24.36	----	2.86	----	----	----	----	----
C11	990.0	992.0	Canyon	8.74	17.56	24.77	----	2.37	----	----	----	----	----
C12	992.0	994.0	Canyon	6.15	20.61	25.49	----	2.83	30.68	41	9,440	9,740	SubB
C13	1,340.0	1,342.0	Cook	3.93	11.48	14.96	----	35.57	----	----	----	----	----
C14	1,342.0	1,344.0	Cook	6.82	12.25	18.23	----	19.21	----	----	----	----	----
C15	1,344.0	1,346.0	Cook	2.66	11.18	13.54	----	48.44	----	----	----	----	----
C16	1,346.0	1,348.0	Cook	8.82	15.03	22.52	----	3.65	----	----	----	----	----
C17	1,348.0	1,350.0	Cook	6.43	13.37	18.94	----	16.82	----	----	----	----	----

Core Hole 8. Analyses for samples from the CMS Oil and Gas Company, Laramore 11-6C core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
A7	5.44	45.57	0.82	0.28	31.35	0.02	0.10	0.16	----
A10	6.22	52.47	0.88	0.05	36.67	0.00	0.00	0.04	----
A11	6.27	51.48	0.87	0.53	36.48	0.04	0.04	0.45	----
A12	6.46	52.95	0.93	0.09	35.88	0.01	0.01	0.07	----
A13	6.26	52.63	0.92	0.08	37.14	0.01	0.01	0.06	----
A14	6.29	51.95	0.81	0.09	38.03	0.01	0.01	0.07	----
A15	6.34	51.43	0.83	0.09	38.59	0.02	0.01	0.07	----
A16	6.30	51.85	0.89	0.26	35.74	0.00	0.01	0.25	----
A17	6.26	50.07	0.91	0.98	35.29	0.02	0.19	0.78	----
A18	6.09	51.52	0.84	0.45	34.22	0.02	0.02	0.42	----
A19	6.43	52.69	0.84	0.48	34.71	0.07	0.01	0.39	----
A20	6.04	46.29	0.78	0.71	33.05	0.01	0.23	0.47	----
A23	6.31	52.32	0.82	0.41	35.14	0.07	0.01	0.33	----
A24	6.23	52.06	0.81	0.27	35.88	0.05	0.01	0.22	----
A25	6.30	53.70	0.85	0.43	33.62	0.05	0.01	0.37	----
C1	6.26	55.14	0.76	0.13	34.35	0.03	0.02	0.09	----
C4	6.19	55.52	0.74	0.08	34.83	0.05	0.01	0.02	----
C5	6.27	54.39	0.70	0.09	36.04	0.07	0.01	0.01	----
C6	6.12	52.75	0.67	0.10	36.48	0.02	0.01	0.07	----
C7	6.34	54.64	0.75	0.11	35.72	0.01	0.01	0.09	----
C8	6.15	54.28	0.71	0.11	36.07	0.05	0.01	0.05	----
C9	6.32	56.75	0.90	0.13	33.25	0.03	0.01	0.09	----
C10	6.20	56.13	0.89	0.12	33.80	0.03	0.01	0.09	----
C11	6.24	56.30	0.91	0.18	34.00	0.06	0.03	0.09	----
C12	6.37	55.09	0.86	0.35	34.50	0.01	0.16	0.18	----
C13	4.55	35.53	0.58	0.56	23.21	0.02	0.16	0.38	----
C14	5.49	46.62	0.75	0.55	27.38	0.02	0.04	0.49	----
C15	3.65	25.38	0.46	1.09	20.98	0.12	0.69	0.28	----
C16	6.13	57.14	0.83	0.43	31.82	0.01	0.03	0.39	----
C17	5.42	48.07	0.75	0.98	27.96	0.09	0.44	0.44	----

Core Hole 9. Analyses for samples from the Kennecott Energy, Kennecott CBM-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
A5	138.0	140.0	Upper Wyodak	3.71	14.51	17.68	----	17.20	----	----	----	----	----
A6	140.0	142.0	Upper Wyodak	6.54	15.01	20.57	----	6.08	----	----	----	----	----
A8	142.0	144.0	Upper Wyodak	5.70	19.04	23.65	----	5.86	----	----	----	----	----
A9	144.0	146.0	Upper Wyodak	5.46	15.23	19.86	22.18	8.03	38.51	33.6	9,280	10,160	SubB
A21	146.0	152.0	Upper Wyodak	3.35	11.61	14.57	----	23.91	----	----	----	----	----
B1	154.0	156.0	Middle/Lower Wyodak	6.46	18.15	23.44	----	5.23	----	----	----	----	----
B2	156.0	158.0	Middle/Lower Wyodak	5.25	14.38	18.88	----	5.19	----	----	----	----	----
B3	158.0	160.0	Middle/Lower Wyodak	6.95	19.49	25.09	----	4.89	----	----	----	----	----
B4	160.0	162.0	Middle/Lower Wyodak	5.17	13.35	17.83	----	3.79	----	----	----	----	----
B14	162.0	164.0	Middle/Lower Wyodak	7.48	20.20	26.17	----	3.31	----	----	----	----	----
B15	165.5	167.5	Middle/Lower Wyodak	5.13	14.26	18.66	----	5.02	----	----	----	----	----
B16	167.5	169.5	Middle/Lower Wyodak	6.14	17.97	23.01	----	5.09	----	----	----	----	----
B17	169.5	171.5	Middle/Lower Wyodak	5.16	21.84	25.87	26.86	3.80	34.27	36.06	8,880	9,260	SubC
B18	171.5	173.5	Middle/Lower Wyodak	6.63	11.98	17.82	----	3.34	----	----	----	----	----
B19	173.5	175.5	Middle/Lower Wyodak	4.77	17.03	20.99	----	3.52	----	----	----	----	----
B20	175.5	177.5	Middle/Lower Wyodak	8.76	19.19	26.27	----	4.19	----	----	----	----	----
B21	177.5	179.5	Middle/Lower Wyodak	8.33	15.77	22.79	----	3.87	----	----	----	----	----
B23	179.5	181.5	Middle/Lower Wyodak	6.55	15.97	21.47	----	4.56	----	----	----	----	----
B24	181.5	183.5	Middle/Lower Wyodak	8.90	18.28	25.55	----	4.61	----	----	----	----	----
C2	183.5	185.5	Middle/Lower Wyodak	6.43	20.58	25.69	----	4.15	----	----	----	----	----
C18	185.5	187.5	Middle/Lower Wyodak	8.03	9.89	17.13	----	4.11	----	----	----	----	----
B22	187.5	189.5	Middle/Lower Wyodak	5.84	18.71	23.46	----	3.93	----	----	----	----	----
C19	189.5	191.5	Middle/Lower Wyodak	10.04	14.99	23.53	----	3.83	----	----	----	----	----
C20	192.5	194.5	Middle/Lower Wyodak	8.18	21.84	28.23	----	5.91	----	----	----	----	----
C21	194.5	196.5	Middle/Lower Wyodak	10.05	15.81	24.27	----	6.24	----	----	----	----	----
C22	196.5	198.5	Middle/Lower Wyodak	6.32	16.27	21.56	24.27	8.71	32.16	37.57	8,700	9,600	SubB
C23	198.5	200.5	Middle/Lower Wyodak	8.54	19.40	26.28	----	3.77	----	----	----	----	----
C24	200.5	202.5	Middle/Lower Wyodak	6.70	11.10	17.06	----	3.69	----	----	----	----	----
C25	202.5	204.5	Middle/Lower Wyodak	8.86	13.44	21.11	----	3.12	----	----	----	----	----
C26	204.5	206.5	Middle/Lower Wyodak	8.84	17.16	24.48	----	3.26	----	----	----	----	----
C27	206.5	208.5	Middle/Lower Wyodak	9.55	15.06	23.17	----	6.45	----	----	----	----	----

Core Hole 9. Analyses for samples from the Kennecott Energy, Kennecott CBM-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
A5	5.63	44.82	0.72	1.72	29.91	----	----	----	----
A6	6.39	53.59	0.75	0.90	32.29	----	----	----	----
A8	6.47	51.62	0.75	0.85	34.45	----	----	----	----
A9	6.43	53.36	0.76	0.63	30.79	0.01	0.06	0.56	----
A21	5.02	42.51	0.75	1.13	26.68	----	----	----	----
B1	6.16	51.82	0.74	0.60	35.45	----	----	----	----
B2	5.68	55.10	0.80	0.45	32.78	----	----	----	----
B3	6.03	50.46	0.72	0.40	37.50	----	----	----	----
B4	5.56	56.39	0.75	0.39	33.12	----	----	----	----
B14	6.18	50.90	0.65	0.35	38.61	----	----	----	----
B15	5.79	55.63	0.81	0.34	32.41	----	----	----	----
B16	6.06	52.32	0.71	0.34	35.48	----	----	----	----
B17	6.41	52.64	0.69	0.13	36.33	0.03	0.02	0.08	----
B18	5.41	56.43	0.70	0.26	33.86	----	----	----	----
B19	5.88	54.98	0.76	0.24	34.62	----	----	----	----
B20	6.66	51.75	0.73	0.31	36.36	----	----	----	----
B21	6.42	53.91	0.76	0.23	34.81	----	----	----	----
B23	6.04	55.08	0.76	0.25	33.31	----	----	----	----
B24	6.29	52.09	0.72	0.19	36.10	----	----	----	----
C2	6.60	52.33	0.73	0.19	36.00	----	----	----	----
C18	6.08	58.21	0.78	0.23	30.59	----	----	----	----
B22	6.62	53.22	0.77	0.23	35.23	----	----	----	----
C19	6.51	53.23	0.77	0.20	35.46	----	----	----	----
C20	6.32	48.44	0.73	0.20	38.40	----	----	----	----
C21	6.34	50.83	0.76	0.24	35.59	----	----	----	----
C22	5.83	50.95	0.86	0.27	33.38	0.01	0.02	0.24	----
C23	6.35	51.48	0.80	0.18	37.42	----	----	----	----
C24	6.03	57.84	0.88	0.17	31.39	----	----	----	----
C25	5.96	55.54	0.86	0.18	34.34	----	----	----	----
C26	6.04	53.17	0.80	0.21	36.52	----	----	----	----
C27	6.25	51.66	0.82	0.28	34.54	----	----	----	----

Core Hole 10. Analyses for samples from the Kennecott Energy, Kennecott CBM-2 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
10	165.0	167.0	Upper Wyodak	9.80	19.55	27.43	27.45	5.13	32.84	34.6	8,910	9,430	SubC
22	167.0	169.0	Upper Wyodak	4.11	22.30	25.49	----	13.49	----	----	----	----	----
23	180.5	182.5	Middle/Lower Wyodak	6.92	24.80	30.00	----	4.26	----	----	----	----	----
24	182.5	184.5	Middle/Lower Wyodak	13.52	17.77	28.89	28.23	5.75	32.35	33.01	8,640	9,210	SubC
29	184.5	186.5	Middle/Lower Wyodak	5.25	25.30	29.22	----	4.74	----	----	----	----	----
31	186.5	188.5	Middle/Lower Wyodak	6.94	23.29	28.61	----	4.63	----	----	----	----	----
33	188.5	190.5	Middle/Lower Wyodak	8.16	23.87	30.08	28.74	3.99	32.3	33.63	8,500	13,350	SubC
34	191.5	193.5	Middle/Lower Wyodak	4.90	23.34	27.10	----	4.22	----	----	----	----	----
35	193.5	195.5	Middle/Lower Wyodak	5.44	23.90	28.04	----	4.47	----	----	----	----	----
36	195.5	197.5	Middle/Lower Wyodak	8.51	23.31	29.84	----	3.61	----	----	----	----	----
37	197.5	199.5	Middle/Lower Wyodak	6.39	21.20	26.24	----	3.84	----	----	----	----	----
41	199.5	201.5	Middle/Lower Wyodak	8.99	19.94	27.14	----	3.50	----	----	----	----	----
43	201.5	203.5	Middle/Lower Wyodak	11.92	17.48	27.32	27.11	3.66	33.03	35.99	8,960	9,330	SubC
44	203.5	205.5	Middle/Lower Wyodak	10.50	19.32	27.79	----	4.60	----	----	----	----	----
45	206.5	208.5	Middle/Lower Wyodak	10.59	19.32	27.86	27.01	4.53	32.51	35.1	8,870	9,330	SubC
46	208.5	210.5	Middle/Lower Wyodak	13.93	16.51	28.14	----	3.81	----	----	----	----	----
48	210.5	212.5	Middle/Lower Wyodak	8.15	19.59	26.14	----	5.27	----	----	----	----	----
49	212.5	214.5	Middle/Lower Wyodak	12.86	16.29	27.06	----	3.42	----	----	----	----	----
54	214.5	216.5	Middle/Lower Wyodak	9.77	17.33	25.41	----	4.30	----	----	----	----	----
56	216.5	218.5	Middle/Lower Wyodak	10.88	18.75	27.59	----	3.79	----	----	----	----	----
57	218.5	220.5	Middle/Lower Wyodak	9.25	18.72	26.24	24.76	5.10	33.48	35.18	9,070	9,600	SubB
58	221.5	223.5	Middle/Lower Wyodak	11.23	18.38	27.55	26.58	6.06	29.85	36.54	8,490	9,090	SubC
59	223.5	225.5	Middle/Lower Wyodak	12.08	14.76	25.06	----	10.32	----	----	----	----	----
61	225.5	227.5	Middle/Lower Wyodak	10.03	21.41	29.29	----	3.23	----	----	----	----	----
C28	227.5	229.5	Middle/Lower Wyodak	9.19	21.70	28.90	26.71	3.12	30.26	37.72	8,850	9,160	SubC
C29	229.5	231.5	Middle/Lower Wyodak	8.19	19.84	26.41	----	2.65	----	----	----	----	----
C30	231.5	233.5	Middle/Lower Wyodak	8.91	18.69	25.93	----	3.49	----	----	----	----	----
C31	233.5	235.5	Middle/Lower Wyodak	11.86	16.45	26.36	----	3.56	----	----	----	----	----
C32	235.5	240.4	Middle/Lower Wyodak	10.18	16.53	25.03	25.08	9.98	33.44	31.55	8,630	9,670	SubB

Core Hole 10. Analyses for samples from the Kennecott Energy, Kennecott CBM-2 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
10	6.70	51.21	0.78	0.53	35.65	0.02	0.05	0.47	1.26
22	6.21	45.59	0.73	0.53	33.45	----	----	----	----
23	6.64	49.51	0.71	0.40	38.48	----	----	----	----
24	6.74	49.44	0.70	0.72	36.65	0.02	0.25	0.45	1.26
29	6.76	49.64	0.71	0.49	37.66	----	----	----	----
31	6.51	50.46	0.75	0.34	37.31	----	----	----	----
33	6.70	49.74	0.69	0.35	38.53	0.02	0.09	0.24	1.27
34	6.61	51.75	0.71	0.34	36.37	----	----	----	----
35	6.61	51.01	0.75	0.37	36.79	----	----	----	----
36	6.71	50.51	0.68	0.37	38.12	----	----	----	----
37	6.61	52.88	0.78	0.28	35.61	----	----	----	----
41	6.60	52.38	0.74	0.25	36.53	----	----	----	----
43	6.70	52.32	0.73	0.22	36.37	0.03	0.02	0.18	1.27
44	6.67	51.63	0.79	0.25	36.06	----	----	----	----
45	6.67	51.52	0.69	0.25	36.34	0.02	0.02	0.22	1.26
46	6.32	52.30	0.70	0.20	36.67	----	----	----	----
48	6.28	53.03	0.75	0.24	34.43	----	----	----	----
49	6.66	52.73	0.76	0.18	36.25	----	----	----	----
54	6.86	53.84	0.77	0.22	34.01	----	----	----	----
56	6.75	52.15	0.76	0.24	36.31	----	----	----	----
57	6.55	52.71	0.76	0.22	34.66	0.04	0.04	0.14	1.27
58	6.31	50.33	0.74	0.23	36.33	0.03	0.04	0.16	1.30
59	6.14	48.81	0.85	0.31	33.57	----	----	----	----
61	6.70	51.38	0.83	0.22	37.64	----	----	----	----
C28	6.59	52.33	0.79	0.16	37.01	0.02	0.08	0.06	1.27
C29	6.62	53.77	0.82	0.20	35.94	----	----	----	----
C30	6.69	53.56	0.83	0.18	35.25	----	----	----	----
C31	6.37	53.23	0.84	0.19	35.81	----	----	----	----
C32	6.52	49.23	0.78	0.39	33.10	0.03	0.02	0.35	1.30

Core Hole 11. Analyses for samples from the Barrett Resources Corporation, CARU State 22-16-5075W core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D1	1,352.8	1,354.8	Big George	5.97	19.40	24.21	23.48	4.01	35.46	36.32	9,510	9,940	SubB
D2	1,354.8	1,356.8	Big George	9.84	15.98	24.25	----	2.95	----	----	----	----	----
D3	1,356.8	1,358.8	Big George	6.96	18.02	23.73	----	3.53	----	----	----	----	----
D4	1,358.8	1,360.8	Big George	11.49	14.67	24.47	----	3.81	----	----	----	----	----
D5	1,360.8	1,362.8	Big George	5.74	21.03	25.56	----	3.71	----	----	----	----	----
D6	1,362.8	1,364.8	Big George	10.69	15.37	24.42	----	3.59	----	----	----	----	----
D7	1,368.0	1,370.0	Big George	6.65	18.08	23.53	----	7.08	----	----	----	----	----
D8	1,370.0	1,372.0	Big George	9.86	14.78	23.18	----	11.40	----	----	----	----	----
D9	1,372.0	1,374.0	Big George	8.05	18.99	25.51	----	4.53	----	----	----	----	----
D10	1,374.0	1,376.0	Big George	10.18	15.71	24.29	----	3.59	----	----	----	----	----
D11	1,376.0	1,378.0	Big George	7.51	18.04	24.20	----	2.80	----	----	----	----	----
D12	1,378.0	1,380.0	Big George	9.80	16.47	24.66	----	3.15	----	----	----	----	----
D14	1,751.0	1,752.0	Werner	6.76	18.71	24.21	----	3.39	----	----	----	----	----
D13	1,752.0	1,754.0	Werner	9.75	15.15	23.42	22.05	3.47	31.34	41.77	----	----	----
D25	1,761.0	1,763.0	Werner	7.06	17.95	23.74	----	2.40	----	----	----	----	----
D15	1,763.0	1,765.0	Werner	8.59	16.13	23.33	----	2.97	----	----	----	----	----
D16	1,765.0	1,767.0	Werner	6.48	19.82	25.02	----	2.47	----	----	----	----	----
D17	1,767.0	1,769.0	Werner	9.30	16.64	24.39	22.06	2.58	31.03	42	9,770	10,050	SubB
D18	1,769.0	1,771.0	Werner	7.06	18.94	24.66	----	2.36	----	----	----	----	----
D19	1,771.0	1,773.0	Werner	11.07	17.24	26.40	----	1.99	----	----	----	----	----
D20	1,773.0	1,775.0	Werner	8.91	15.30	22.85	----	3.90	----	----	----	----	----
D21	1,775.0	1,777.0	Werner	11.15	15.23	24.68	----	2.04	----	----	----	----	----
D22	1,777.0	1,779.0	Werner	8.99	18.20	25.55	----	2.53	----	----	----	----	----
D23	1,779.0	1,781.0	Werner	11.86	14.76	24.87	----	1.88	----	----	----	----	----
D24	1,781.0	1,783.0	Werner	12.42	16.24	26.64	24.31	2.99	28.52	41.85	9,380	9,690	SubB

Core Hole 11. Analyses for samples from the Barrett Resources Corporation, CARU State 22-16-5075W core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D1	6.78	54.41	0.84	0.43	33.53	0.01	0.05	0.37	1.25
D2	6.65	55.25	0.82	0.34	33.99	----	----	----	----
D3	6.73	55.08	0.86	0.34	33.46	----	----	----	----
D4	6.56	54.28	0.83	0.26	34.26	----	----	----	----
D5	6.61	53.51	0.82	0.24	35.11	----	----	----	----
D6	6.68	54.79	0.80	0.18	33.96	----	----	----	----
D7	6.62	52.57	0.75	0.60	32.38	----	----	----	----
D8	6.22	48.87	0.66	1.22	31.63	----	----	----	----
D9	6.37	53.39	0.69	0.32	34.70	----	----	----	----
D10	6.60	55.02	0.75	0.15	33.89	----	----	----	----
D11	6.69	55.42	0.71	0.16	34.22	----	----	----	----
D12	6.76	54.84	0.73	0.13	34.39	----	----	----	----
D14	6.55	55.44	0.80	0.13	33.69	0.01	0.01	0.11	----
D13	6.42	56.22	0.81	0.12	32.96	0.00	0.01	0.11	1.3
D25	6.53	57.04	0.82	0.04	33.17	0.00	0.00	0.03	----
D15	6.67	56.90	0.89	0.13	32.44	0.01	0.01	0.11	----
D16	6.80	56.24	0.86	0.10	33.53	0.01	0.01	0.08	----
D17	6.52	56.80	0.89	0.03	33.18	0.00	0.00	0.03	1.25
D18	6.55	56.92	0.91	0.02	33.24	0.00	0.00	0.02	----
D19	6.63	55.28	0.83	0.02	35.25	0.00	0.00	0.02	----
D20	6.34	56.86	0.89	0.10	31.91	0.01	0.01	0.08	----
D21	6.59	56.53	0.90	0.02	33.92	0.00	0.00	0.02	----
D22	6.36	56.03	0.87	0.03	34.18	0.00	0.00	0.03	----
D23	6.45	56.71	0.90	0.03	34.03	0.00	0.00	0.02	----
D24	6.48	54.83	0.85	0.11	34.74	0.01	0.01	0.09	1.27

Core Hole 12. Analyses for samples from the Barrett Resources Corporation, Schoonover Road Unit (SRU) State 12-16-4876 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D30	1,360.0	1,361.0	Big George	6.52	16.37	21.82	----	3.01	----	----	----	----	----
D31	1,362.0	1,363.0	Big George	10.28	14.71	23.48	----	3.15	----	----	----	----	----
D38	1,371.0	1,371.5	Big George	6.40	16.30	21.66	----	3.40	----	----	----	----	----
D37	1,372.0	1,373.0	Big George	10.08	11.71	20.61	----	2.81	----	----	----	----	----
D36	1,374.0	1,375.0	Big George	8.44	15.10	22.27	21.47	2.52	34.07	41.14	9,910	10,190	SubB
D32	1,376.0	1,377.0	Big George	9.26	14.51	22.43	----	3.34	----	----	----	----	----
D33	1,378.0	1,379.0	Big George	12.09	12.74	23.29	----	3.12	----	----	----	----	----
D34	1,380.0	1,381.0	Big George	8.84	14.54	22.09	----	4.05	----	----	----	----	----
D35	1,383.0	1,383.5	Big George	8.63	14.28	21.68	----	4.64	----	----	----	----	----
D39	1,384.0	1,384.5	Big George	7.24	14.42	20.62	----	3.47	----	----	----	----	----
D43	1,390.0	1,391.0	Big George	10.55	12.62	21.84	20.84	3.53	33.31	41.32	9,870	10,260	SubB
D42	1,392.0	1,393.0	Big George	7.28	15.60	21.74	----	2.84	----	----	----	----	----
D41	1,394.0	1,395.0	Big George	9.86	13.08	21.65	----	4.20	----	----	----	----	----
D40	1,396.0	1,397.0	Big George	7.40	14.70	21.01	----	2.47	----	----	----	----	----
D50	1,399.0	1,399.5	Big George	4.87	15.99	20.08	----	3.97	----	----	----	----	----
D44	1,400.0	1,401.0	Big George	9.88	12.51	21.15	----	3.39	----	----	----	----	----
D45	1,402.0	1,403.0	Big George	9.55	14.13	22.33	----	3.76	----	----	----	----	----
D46	1,404.0	1,405.0	Big George	8.92	15.33	22.88	----	2.97	----	----	----	----	----
D47	1,406.0	1,407.0	Big George	9.18	14.35	22.21	----	3.04	----	----	----	----	----
D48	1,408.0	1,409.0	Big George	7.72	17.31	23.69	----	3.13	----	----	----	----	----
D49	1,410.0	1,411.0	Big George	9.11	14.52	22.31	20.77	3.04	34.1	40.55	9,880	10,220	SubB
D29	1,415.0	1,416.0	Big George	8.84	13.82	21.44	----	3.45	----	----	----	----	----
D51	1,417.0	1,418.0	Big George	12.40	10.94	21.98	----	2.68	----	----	----	----	----
D52	1,419.0	1,420.0	Big George	8.10	15.29	22.15	----	2.91	----	----	----	----	----
D53	1,421.0	1,422.0	Big George	10.77	12.31	21.75	----	3.71	----	----	----	----	----
D54	1,423.0	1,424.0	Big George	7.38	17.14	23.26	----	3.65	----	----	----	----	----
D55	1,425.0	1,426.0	Big George	9.12	14.52	22.32	----	5.48	----	----	----	----	----
D56	1,427.0	1,428.0	Big George	12.33	12.06	22.90	----	4.99	----	----	----	----	----
D57	1,429.0	1,430.0	Big George	10.18	13.94	22.70	----	4.27	----	----	----	----	----
D26	1,432.0	1,432.5	Big George	7.09	13.12	19.28	16.33	19.93	31.50	29.29	7,540	9,610	SubB
D28	1,433.0	1,434.0	Big George	7.14	15.38	21.42	----	17.45	----	----	----	----	----
D27	1,435.0	1,436.0	Big George	10.92	10.95	20.67	20.02	8.14	32.56	38.63	9,320	10,220	SubB

Core Hole 12. Analyses for samples from the Barrett Resources Corporation, Schoonover Road Unit (SRU)
 State 12-16-4876 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D30	6.33	56.25	0.84	0.23	33.34	----	----	----	----
D31	6.67	55.99	0.83	0.20	33.16	----	----	----	----
D38	6.18	57.37	0.80	0.11	32.14	----	----	----	----
D37	6.38	58.41	0.70	0.11	31.59	----	----	----	----
D36	6.48	57.30	0.69	0.08	32.93	0.01	0.00	0.07	1.27
D32	6.45	55.16	0.72	0.03	34.30	----	----	----	----
D33	6.39	56.30	0.68	0.10	33.41	----	----	----	----
D34	6.24	56.33	0.67	0.11	32.60	----	----	----	----
D35	6.25	56.32	0.71	0.11	31.97	----	----	----	----
D39	6.42	57.87	0.67	0.12	31.45	----	----	----	----
D43	6.33	57.13	0.68	0.14	32.19	0.01	0.01	0.12	1.33
D42	6.33	57.60	0.67	0.23	32.33	----	----	----	----
D41	6.27	56.40	0.68	0.17	32.28	----	----	----	----
D40	6.32	58.25	0.67	0.23	32.06	----	----	----	----
D50	6.26	57.72	0.72	0.18	31.15	----	----	----	----
D44	6.31	56.74	0.65	0.18	32.73	----	----	----	----
D45	6.53	55.82	0.64	0.20	33.05	----	----	----	----
D46	6.65	56.89	0.63	0.17	32.69	----	----	----	----
D47	6.60	56.86	0.69	0.17	32.64	----	----	----	----
D48	6.73	56.12	0.69	0.22	33.11	----	----	----	----
D49	6.47	56.79	0.69	0.18	32.83	0.01	0.00	0.17	1.35
D29	6.36	57.55	0.68	0.25	31.71	----	----	----	----
D51	6.38	57.48	0.68	0.29	32.49	----	----	----	----
D52	6.51	57.29	0.69	0.43	32.17	----	----	----	----
D53	6.45	57.19	0.72	0.39	31.54	----	----	----	----
D54	6.43	56.24	0.68	0.51	32.49	----	----	----	----
D55	6.04	55.62	0.71	0.50	31.65	----	----	----	----
D56	6.03	55.63	0.70	0.68	31.97	----	----	----	----
D57	6.08	56.76	0.78	0.79	31.32	----	----	----	----
D26	5.29	44.09	0.74	1.47	28.48	0.06	0.56	0.85	1.56
D28	5.41	46.30	0.61	0.98	29.25	----	----	----	----
D27	6.00	53.76	0.82	1.44	29.84	0.03	0.38	1.03	1.39

Core Hole 13. Analyses for samples from the Rim Operating Inc., CBM H 11-04 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C2	204.0	206.0	Upper Wyodak	8.85	15.91	23.35	----	10.51	----	----	----	----	----
C3	206.0	208.0	Upper Wyodak	8.41	15.45	22.56	----	21.76	----	----	----	----	----
C18	208.0	210.0	Upper Wyodak	7.80	18.68	25.02	----	14.55	----	----	----	----	----
C19	210.0	212.0	Upper Wyodak	10.98	18.76	27.68	----	6.82	----	----	----	----	----
C20	212.0	214.0	Upper Wyodak	8.76	22.00	28.83	----	5.12	----	----	----	----	----
C21	214.0	216.0	Upper Wyodak	11.94	19.39	29.01	----	3.97	31.98	35.04	8,790	9,180	SubC
C22	216.0	218.0	Upper Wyodak	11.36	21.16	30.12	----	4.54	----	----	----	----	----
C23	218.0	220.0	Upper Wyodak	12.70	21.40	31.38	----	3.73	----	----	----	----	----
C24	224.0	226.0	Middle/Lower Wyodak	9.56	20.36	27.97	----	8.06	----	----	----	----	----
C27	226.0	228.0	Middle/Lower Wyodak	10.12	18.78	27.00	----	6.71	----	----	----	----	----
C26	228.0	230.0	Middle/Lower Wyodak	12.77	18.21	28.65	----	4.11	----	----	----	----	----
C28	230.0	232.0	Middle/Lower Wyodak	12.63	19.37	29.55	----	4.48	----	----	----	----	----
C29	232.0	234.0	Middle/Lower Wyodak	12.19	19.03	28.90	----	2.58	29.98	38.54	8,780	9,040	SubC
C30	234.0	236.0	Middle/Lower Wyodak	13.34	18.15	29.07	----	4.08	----	----	----	----	----
C31	236.0	238.0	Middle/Lower Wyodak	11.43	19.38	28.59	----	4.31	----	----	----	----	----
C32	238.0	240.0	Middle/Lower Wyodak	11.49	16.17	25.80	----	5.57	----	----	----	----	----
C33	240.0	242.0	Middle/Lower Wyodak	11.43	20.94	29.98	----	3.50	----	----	----	----	----
C35	244.0	246.0	Middle/Lower Wyodak	12.28	16.37	26.64	----	3.72	35.07	34.57	9,120	9,500	SubB
C36	246.0	248.0	Middle/Lower Wyodak	9.26	19.16	26.65	----	4.81	----	----	----	----	----
C37	248.0	250.0	Middle/Lower Wyodak	15.58	15.56	28.72	----	3.66	----	----	----	----	----
C38	250.0	252.0	Middle/Lower Wyodak	12.06	19.97	29.62	----	4.46	----	----	----	----	----
C39	252.0	254.0	Middle/Lower Wyodak	13.08	18.65	29.29	----	3.76	----	----	----	----	----
C40	254.0	256.0	Middle/Lower Wyodak	10.26	17.75	26.19	----	5.28	----	----	----	----	----
C41	256.0	258.0	Middle/Lower Wyodak	11.75	18.35	27.94	----	3.88	----	----	----	----	----
C42	258.0	260.0	Middle/Lower Wyodak	10.13	18.62	26.86	----	4.44	----	----	----	----	----
C43	260.0	262.0	Middle/Lower Wyodak	15.33	16.40	29.22	----	3.72	----	----	----	----	----
6	262.0	264.0	Middle/Lower Wyodak	8.88	24.19	30.92	----	4.20	----	----	----	----	----
10	264.0	266.0	Middle/Lower Wyodak	14.54	19.50	31.20	----	5.90	----	----	----	----	----

Core Hole 13. Analyses for samples from the Rim Operating Inc., CBM H 11-04 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
56	266.0	268.0	Middle/Lower Wyodak	10.76	20.02	28.63	----	7.66	31.28	32.43	8,350	9,100	SubC
65	268.0	270.0	Middle/Lower Wyodak	13.38	18.64	29.53	----	5.73	----	----	----	----	----
A3	271.0	272.0	Middle/Lower Wyodak	9.77	25.43	32.72	----	3.57	----	----	----	----	----
A5	272.0	274.0	Middle/Lower Wyodak	13.81	19.27	30.42	----	2.75	----	----	----	----	----
A6	274.0	276.0	Middle/Lower Wyodak	10.16	20.19	28.30	----	3.81	----	----	----	----	----
A8	276.0	278.0	Middle/Lower Wyodak	12.89	19.22	29.63	----	3.24	----	----	----	----	----
A21	278.0	280.0	Middle/Lower Wyodak	8.56	24.67	31.12	----	5.03	----	----	----	----	----

Core Hole 13. Analyses for samples from the Rim Operating Inc., CBM H 11-04 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C2	6.41	49.30	0.85	0.93	32.00	----	----	----	----
C3	5.71	40.07	0.67	1.74	30.05	----	----	----	----
C18	6.14	44.18	0.81	1.02	33.30	----	----	----	----
C19	6.50	48.42	0.74	2.53	34.99	----	----	----	----
C20	6.77	49.57	0.74	0.75	37.05	----	----	----	----
C21	6.82	50.16	0.73	0.64	37.68	0.01	0.14	0.49	----
C22	6.63	48.89	0.74	0.71	38.49	----	----	----	----
C23	6.89	48.69	0.70	0.69	39.30	----	----	----	----
C24	6.41	47.35	0.71	1.16	36.31	----	----	----	----
C27	6.37	49.74	0.72	1.37	35.09	----	----	----	----
C26	6.51	50.17	0.71	0.43	38.07	----	----	----	----
C28	6.44	49.24	0.71	0.42	38.71	----	----	----	----
C29	6.62	51.59	0.73	0.13	38.35	0.01	0.02	0.09	----
C30	6.58	50.02	0.72	0.29	38.31	----	----	----	----
C31	6.55	50.50	0.75	0.34	37.55	----	----	----	----
C32	6.54	51.78	0.78	0.32	35.01	----	----	----	----
C33	6.68	49.47	0.71	0.26	39.38	----	----	----	----
C35	6.83	52.30	0.79	0.23	36.13	0.01	0.02	0.20	----
C36	6.73	51.83	0.79	0.24	35.60	----	----	----	----
C37	6.83	51.33	0.73	0.27	37.18	----	----	----	----
C38	6.68	49.74	0.73	0.24	38.15	----	----	----	----
C39	6.49	50.78	0.72	0.19	38.06	----	----	----	----
C40	6.50	51.55	0.78	0.22	35.67	----	----	----	----
C41	6.76	51.17	0.78	0.20	37.21	----	----	----	----
C42	7.07	52.06	0.80	0.24	35.39	----	----	----	----
C43	6.88	50.74	0.73	0.23	37.70	----	----	----	----
6	6.75	49.08	0.76	0.21	39.00	----	----	----	----
10	6.54	47.43	0.74	0.21	39.18	----	----	----	----

Core Hole 13. Analyses for samples from the Rim Operating Inc., CBM H 11-04 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
56	6.65	47.88	0.87	0.34	36.60	0.01	0.02	0.31	----
65	6.55	48.90	0.81	0.23	37.78	----	----	----	----
A3	6.83	48.65	0.80	0.16	39.99	----	----	----	----
A5	6.85	50.36	0.82	0.15	39.07	----	----	----	----
A6	6.91	51.55	0.85	0.18	36.7	----	----	----	----
A8	6.63	50.89	0.82	0.21	38.21	----	----	----	----
A21	6.86	48.41	0.81	0.26	38.63	----	----	----	----

Core Hole 14. Analyses for samples from the Rim Operating Inc., CBM C33-1R core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
8	259.0	261.0	Middle/Lower Wyodak	5.49	23.50	27.70	25.56	4.41	30.92	36.97	8,800	9,240	SubC
9	261.0	263.0	Middle/Lower Wyodak	8.93	21.07	28.12	----	3.66	----	----	----	----	----
11	263.0	264.8	Middle/Lower Wyodak	5.31	24.13	28.16	----	3.11	----	----	----	----	----
12	265.0	267.0	Middle/Lower Wyodak	7.60	21.55	27.51	----	3.76	----	----	----	----	----
13	267.0	269.0	Middle/Lower Wyodak	7.46	22.16	27.97	----	4.48	----	----	----	----	----
14	269.0	271.0	Middle/Lower Wyodak	6.27	24.18	28.93	----	3.24	----	----	----	----	----
15	271.0	273.0	Middle/Lower Wyodak	7.97	21.91	28.13	----	3.04	----	----	----	----	----
16	273.0	274.8	Middle/Lower Wyodak	6.11	22.45	27.19	----	2.85	----	----	----	----	----
18	275.0	277.0	Middle/Lower Wyodak	8.81	22.17	29.03	----	2.51	----	----	----	----	----
19	277.0	279.0	Middle/Lower Wyodak	6.32	21.52	26.48	----	2.83	----	----	----	----	----
20	279.0	281.0	Middle/Lower Wyodak	6.51	22.29	27.35	----	3.73	----	----	----	----	----
21	281.0	283.0	Middle/Lower Wyodak	8.77	21.32	28.22	26.14	3.19	32.01	36.58	8,930	9,250	SubC
22	283.0	285.0	Middle/Lower Wyodak	6.86	23.50	28.75	----	3.85	----	----	----	----	----
23	285.0	287.0	Middle/Lower Wyodak	9.28	23.77	30.84	----	3.27	----	----	----	----	----
24	287.0	289.0	Middle/Lower Wyodak	7.12	24.23	29.62	----	2.64	----	----	----	----	----
25	289.0	291.0	Middle/Lower Wyodak	10.46	22.54	30.64	----	2.66	----	----	----	----	----
26	291.0	293.0	Middle/Lower Wyodak	11.79	17.99	27.66	----	3.03	----	----	----	----	----
27	293.0	295.0	Middle/Lower Wyodak	7.66	20.17	26.28	----	3.21	----	----	----	----	----
28	295.0	297.0	Middle/Lower Wyodak	10.17	20.47	28.56	----	3.75	----	----	----	----	----
29	297.0	299.0	Middle/Lower Wyodak	9.44	21.78	29.16	----	4.77	----	----	----	----	----
30	299.0	301.0	Middle/Lower Wyodak	5.09	23.56	27.45	----	8.71	----	----	----	----	----
31	301.0	303.0	Middle/Lower Wyodak	11.30	23.09	31.78	----	3.71	----	----	----	----	----
32	303.0	305.0	Middle/Lower Wyodak	5.32	27.04	30.92	----	2.23	----	----	----	----	----
33	305.0	307.0	Middle/Lower Wyodak	8.77	26.71	33.14	----	2.03	----	----	----	----	----
34	307.0	309.0	Middle/Lower Wyodak	8.88	22.24	29.15	----	2.53	----	----	----	----	----
35	309.0	311.0	Middle/Lower Wyodak	8.26	21.88	28.33	23.65	2.72	30.81	38.14	9,030	9,300	SubC
36	311.0	313.0	Middle/Lower Wyodak	9.29	22.46	29.66	25.37	2.59	29.95	37.8	8,800	9,050	SubC
37	313.0	315.0	Middle/Lower Wyodak	7.73	22.47	28.46	----	3.89	----	----	----	----	----
38	315.0	317.0	Middle/Lower Wyodak	10.71	23.50	31.69	----	2.98	----	----	----	----	----
39	317.0	319.0	Middle/Lower Wyodak	9.15	22.35	29.45	----	4.56	----	----	----	----	----

Core Hole 14. Analyses for samples from the Rim Operating Inc., CBM C33-1R (Ocean 43-10C) core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
8	6.72	51.09	0.65	0.41	36.72	0.02	0.06	0.33	1.36
9	6.60	51.11	0.68	0.38	37.57	0.01	0.10	0.28	----
11	6.60	51.20	0.64	0.30	38.15	0.01	0.01	0.28	----
12	6.62	51.23	0.67	0.46	37.26	0.01	0.02	0.43	----
13	6.58	50.38	0.62	0.37	37.57	0.03	0.04	0.31	----
14	6.72	50.86	0.62	0.29	38.27	0.02	0.04	0.23	----
15	6.66	51.32	0.60	0.23	38.15	0.01	0.01	0.20	----
16	6.61	52.17	0.62	0.23	37.52	0.01	0.01	0.21	----
18	6.68	50.90	0.58	0.19	39.14	0.01	0.01	0.17	----
19	6.63	52.79	0.63	0.25	36.87	0.00	0.01	0.24	----
20	6.78	51.41	0.66	0.21	37.21	0.00	0.01	0.20	----
21	6.92	52.04	0.59	0.22	37.04	0.01	0.02	0.20	1.34
22	6.49	50.40	0.57	0.24	38.45	0.01	0.03	0.20	----
23	6.77	49.13	0.59	0.21	40.03	0.01	0.03	0.17	----
24	6.78	50.22	0.57	0.17	39.62	0.01	0.02	0.15	----
25	6.94	49.68	0.57	0.15	40.00	0.01	0.02	0.12	----
26	6.96	51.64	0.60	0.20	37.57	0.02	0.01	0.18	----
27	6.58	52.78	0.64	0.24	36.55	0.01	0.02	0.21	----
28	6.66	50.65	0.64	0.19	38.11	0.02	0.02	0.16	----
29	6.57	49.44	0.58	0.20	38.44	0.02	0.02	0.17	----
30	6.43	47.66	0.63	0.25	36.32	0.02	0.02	0.21	----
31	6.71	48.36	0.62	0.22	40.38	0.02	0.03	0.18	----
32	6.81	50.29	0.71	0.14	39.82	0.02	0.02	0.11	----
33	6.92	48.71	0.64	0.12	41.58	0.02	0.03	0.07	----
34	6.80	51.16	0.65	0.12	38.74	0.02	0.01	0.10	----
35	6.68	52.22	0.69	0.14	37.55	0.01	0.02	0.12	1.31
36	6.72	51.18	0.67	0.13	38.71	0.01	0.02	0.11	1.46
37	6.76	50.47	0.70	0.19	37.99	0.01	0.02	0.17	----
38	6.67	48.88	0.62	0.19	40.66	0.01	0.04	0.14	----
39	6.46	49.37	0.68	0.24	38.69	0.00	0.01	0.23	----

Core Hole 15. Analyses for samples from the Peabody Natural Gas LLC., PNG 34-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
B1	258.3	260.3	Middle/Lower Wyodak	7.40	19.56	25.51	25.06	6.83	32.26	35.4	8,710	9,400	SubC
B2	260.3	262.3	Middle/Lower Wyodak	7.94	19.28	25.69	----	5.85	----	----	----	----	----
B3	262.3	264.3	Middle/Lower Wyodak	9.18	20.03	27.37	----	3.43	----	----	----	----	----
B4	266.0	268.0	Middle/Lower Wyodak	8.19	19.45	26.05	----	4.35	----	----	----	----	----
B5	268.0	270.0	Middle/Lower Wyodak	6.65	19.68	25.02	----	3.41	----	----	----	----	----
B6	270.0	272.0	Middle/Lower Wyodak	8.40	21.51	28.10	----	3.99	----	----	----	----	----
B7	272.0	274.0	Middle/Lower Wyodak	8.01	23.35	29.49	26.19	2.75	30.91	36.85	8,600	8,860	SubC
B8	274.0	276.0	Middle/Lower Wyodak	9.62	18.13	26.01	----	3.38	----	----	----	----	----
B9	276.0	278.0	Middle/Lower Wyodak	7.88	22.76	28.85	----	3.04	----	----	----	----	----
B10	278.0	280.0	Middle/Lower Wyodak	8.77	20.28	27.27	----	3.06	----	----	----	----	----
B11	280.0	282.0	Middle/Lower Wyodak	7.93	21.08	27.34	----	3.91	----	----	----	----	----
B12	282.0	284.0	Middle/Lower Wyodak	11.07	18.74	27.74	----	4.95	----	----	----	----	----
B13	284.0	286.0	Middle/Lower Wyodak	16.07	14.47	28.21	----	3.80	----	----	----	----	----
B14	286.0	288.0	Middle/Lower Wyodak	11.03	18.78	27.74	28.69	4.00	30.75	37.51	8,700	9,090	SubC
B15	288.0	290.0	Middle/Lower Wyodak	14.45	13.81	26.26	----	3.47	----	----	----	----	----
B16	291.0	293.0	Middle/Lower Wyodak	11.79	15.68	25.62	----	3.65	----	----	----	----	----
B18	293.0	295.0	Middle/Lower Wyodak	10.84	16.32	25.39	----	4.99	----	----	----	----	----
B19	295.0	297.0	Middle/Lower Wyodak	13.56	15.36	26.84	----	6.03	----	----	----	----	----
B17	297.0	299.0	Middle/Lower Wyodak	13.95	15.50	27.29	----	3.83	----	----	----	----	----
B20	299.0	301.0	Middle/Lower Wyodak	11.81	13.79	23.97	23.38	12.04	30.66	33.33	8,130	4,040	SubC
B21	301.0	303.0	Middle/Lower Wyodak	12.77	17.76	28.26	----	4.63	----	----	----	----	----
B22	303.0	305.0	Middle/Lower Wyodak	12.24	17.29	27.41	----	3.59	----	----	----	----	----
B23	307.0	309.0	Middle/Lower Wyodak	9.46	22.65	29.97	----	2.68	----	----	----	----	----
B24	309.0	311.0	Middle/Lower Wyodak	11.50	17.91	27.35	----	2.96	----	----	----	----	----
40	311.0	313.0	Middle/Lower Wyodak	10.30	20.39	28.59	----	2.57	----	----	----	----	----
41	313.0	315.0	Middle/Lower Wyodak	12.90	17.48	28.13	27.35	2.48	31.36	38.03	8,860	9,100	SubC
42	315.0	317.0	Middle/Lower Wyodak	10.59	19.32	27.86	----	3.88	----	----	----	----	----
43	317.0	319.0	Middle/Lower Wyodak	10.88	16.60	25.67	----	4.22	----	----	----	----	----
44	319.0	321.0	Middle/Lower Wyodak	14.64	14.86	27.32	----	4.81	----	----	----	----	----
45	322.0	324.0	Middle/Lower Wyodak	10.44	18.12	26.67	----	5.81	----	----	----	----	----
46	324.0	326.0	Middle/Lower Wyodak	13.52	16.37	27.68	----	5.86	----	----	----	----	----
47	326.0	328.0	Middle/Lower Wyodak	14.39	19.97	31.49	----	2.82	----	----	----	----	----

Core Hole 15. Analyses for samples from the Peabody Natural Gas LLC., PNG 34-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
B1	6.43	50.34	0.76	0.60	35.04	0.01	0.25	0.39	1.31
B2	6.46	50.69	0.80	0.33	35.87	----	----	----	----
B3	6.50	50.95	0.76	0.30	38.06	----	----	----	----
B4	6.51	51.99	0.74	0.26	36.15	----	----	----	----
B5	6.53	53.04	0.79	0.22	36.01	----	----	----	----
B6	6.61	50.31	0.72	0.25	38.12	----	----	----	----
B7	6.81	50.45	0.65	0.17	39.17	0.02	0.01	0.15	1.32
B8	6.61	52.49	0.70	0.16	36.66	----	----	----	----
B9	6.72	50.26	0.68	0.15	39.15	----	----	----	----
B10	6.74	51.66	0.69	0.14	37.71	----	----	----	----
B11	6.68	51.37	0.71	0.17	37.16	----	----	----	----
B12	6.60	50.08	0.71	0.25	37.41	----	----	----	----
B13	6.56	50.82	0.67	0.20	37.95	----	----	----	----
B14	6.51	51.19	0.63	0.14	37.53	0.01	0.01	0.13	1.24
B15	6.58	52.82	0.67	0.11	36.35	----	----	----	----
B16	6.71	52.98	0.74	0.19	35.73	----	----	----	----
B18	6.60	52.27	0.74	0.23	35.17	----	----	----	----
B19	6.28	50.18	0.70	0.14	36.67	----	----	----	----
B17	6.36	51.42	0.70	0.13	37.56	----	----	----	----
B20	5.93	47.61	0.69	0.20	33.53	0.01	0.00	0.17	1.34
B21	6.42	50.59	0.71	0.09	37.56	----	----	----	----
B22	6.36	52.40	0.77	0.08	36.80	----	----	----	----
B23	6.65	50.56	0.76	0.14	39.21	----	----	----	----
B24	6.67	52.37	0.75	0.10	37.15	----	----	----	----
40	6.72	51.43	0.70	0.14	38.44	----	----	----	----
41	6.72	52.01	0.73	0.14	37.92	----	----	----	1.28
42	6.65	50.48	0.73	0.17	38.09	----	----	----	----
43	6.07	52.10	0.77	0.08	36.76	----	----	----	----
44	6.21	50.44	0.75	0.08	37.71	----	----	----	----
45	6.54	50.33	0.83	0.19	36.30	----	----	----	----
46	6.52	49.21	0.84	0.23	37.34	----	----	----	----
47	6.72	48.30	0.79	0.14	41.23	----	----	----	----

Core Hole 16. Analyses for samples from the Peabody Natural Gas LLC., PNG 33-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C1	286.0	288.0	Middle/Lower Wyodak	10.59	16.38	25.24	24.64	5.68	32.5	36.58	8,830	9,410	SubC
C2	288.0	290.0	Middle/Lower Wyodak	13.75	13.93	25.76	----	4.03	----	----	----	----	----
C3	290.0	292.0	Middle/Lower Wyodak	11.32	16.64	26.08	----	4.66	----	----	----	----	----
C4	292.0	294.2	Middle/Lower Wyodak	5.81	24.03	28.44	----	3.42	----	----	----	----	----
C5	294.2	296.4	Middle/Lower Wyodak	9.91	22.50	30.18	----	3.43	----	----	----	----	----
C6	296.4	298.6	Middle/Lower Wyodak	5.82	21.93	26.47	----	4.06	----	----	----	----	----
C7	298.6	300.8	Middle/Lower Wyodak	7.48	20.12	26.10	----	5.67	----	----	----	----	----
C8	300.8	303.0	Middle/Lower Wyodak	7.59	22.07	27.98	26.37	3.44	32.09	36.49	8,820	9,160	SubC
C9	303.5	305.5	Middle/Lower Wyodak	5.88	24.95	29.36	----	3.21	----	----	----	----	----
C10	305.5	307.5	Middle/Lower Wyodak	7.77	23.29	29.25	----	2.65	----	----	----	----	----
C11	307.5	309.5	Middle/Lower Wyodak	5.98	24.70	29.20	----	3.03	----	----	----	----	----
C12	309.5	311.5	Middle/Lower Wyodak	8.21	21.11	27.59	----	3.00	----	----	----	----	----
C13	314.3	316.3	Middle/Lower Wyodak	6.64	23.01	28.12	26.18	3.59	30.35	37.94	4,036	8,980	SubC
C14	316.3	318.3	Middle/Lower Wyodak	6.59	24.61	29.58	----	3.13	----	----	----	----	----
C15	318.3	320.3	Middle/Lower Wyodak	7.02	21.80	27.29	----	4.02	----	----	----	----	----
C16	320.3	322.3	Middle/Lower Wyodak	5.69	24.35	28.65	----	3.44	----	----	----	----	----
C17	328.0	330.0	Middle/Lower Wyodak	7.01	22.22	27.67	26.01	7.20	29.54	35.59	8,300	9,000	SubC
C18	330.0	332.0	Middle/Lower Wyodak	10.79	18.39	27.20	----	5.14	----	----	----	----	----
C19	332.0	334.0	Middle/Lower Wyodak	14.21	17.12	28.90	----	2.83	----	----	----	----	----
C20	334.0	336.0	Middle/Lower Wyodak	10.72	19.54	28.17	----	2.62	----	----	----	----	----
C21	336.0	338.0	Middle/Lower Wyodak	11.68	17.76	27.37	----	2.65	----	----	----	----	----
C22	338.0	340.0	Middle/Lower Wyodak	11.16	19.31	28.32	----	2.18	----	----	----	----	----
C23	340.0	342.0	Middle/Lower Wyodak	10.59	18.90	27.49	----	2.84	----	----	----	----	----
C24	343.3	345.3	Middle/Lower Wyodak	10.91	17.52	26.52	24.86	3.43	33.18	36.87	9,100	9,450	SubC
C26	345.3	347.3	Middle/Lower Wyodak	13.64	15.37	26.91	----	3.46	----	----	----	----	----
C27	347.3	349.3	Middle/Lower Wyodak	9.42	21.88	29.24	----	3.97	----	----	----	----	----
C28	349.3	351.3	Middle/Lower Wyodak	13.19	18.27	29.05	----	3.11	----	----	----	----	----
C29	351.3	353.3	Middle/Lower Wyodak	10.58	21.59	29.89	----	3.53	----	----	----	----	----

Core Hole 16. Analyses for samples from the Peabody Natural Gas LLC., PNG 33-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C1	6.48	51.77	0.79	0.42	34.86	0.01	0.06	0.35	1.31
C2	6.39	52.06	0.77	0.28	36.47	----	----	----	----
C3	6.30	50.94	0.77	0.26	37.07	----	----	----	----
C4	6.56	50.80	0.72	0.40	38.10	----	----	----	----
C5	6.69	49.28	0.67	0.29	39.64	----	----	----	----
C6	6.58	51.52	0.76	0.35	36.73	----	----	----	----
C7	6.41	50.78	0.73	0.25	36.16	----	----	----	----
C8	6.66	51.27	0.69	0.18	37.76	0.01	0.01	0.17	1.24
C9	6.60	49.99	0.68	0.15	39.37	----	----	----	----
C10	6.61	50.31	0.64	0.16	39.63	----	----	----	----
C11	6.66	50.53	0.66	0.13	38.99	----	----	----	----
C12	6.50	51.50	0.68	0.16	38.16	----	----	----	----
C13	6.52	50.85	0.62	0.15	38.27	0.01	0.01	0.14	1.28
C14	6.48	50.22	0.60	0.22	39.35	----	----	----	----
C15	6.62	52.58	0.66	0.16	35.96	----	----	----	----
C16	6.66	51.21	0.61	0.14	37.94	----	----	----	----
C17	6.34	48.70	0.66	0.16	36.94	0.01	0.01	0.15	1.29
C18	6.34	50.90	0.72	0.23	36.67	----	----	----	----
C19	6.47	51.68	0.65	0.10	38.27	----	----	----	----
C20	6.44	51.85	0.69	0.08	38.32	----	----	----	----
C21	6.47	52.84	0.73	0.07	37.24	----	----	----	----
C22	6.53	51.93	0.69	0.07	38.60	----	----	----	----
C23	6.63	52.36	0.68	0.11	37.38	----	----	----	----
C24	6.55	52.88	0.70	0.12	36.32	0.01	0.00	0.11	1.28
C26	6.50	52.30	0.73	0.12	36.89	----	----	----	----
C27	6.24	50.25	0.73	0.07	38.74	----	----	----	----
C28	6.28	51.31	0.76	0.07	38.47	----	----	----	----
C29	6.67	49.51	0.71	0.29	39.29	----	----	----	----

Core Hole 17. Analyses for samples from the Peabody Natural Gas LLC., PNG 31-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
A1	252.0	254.0	Middle/Lower Wyodak	8.02	22.15	28.39	26.68	3.92	30.54	37.15	8,560	8,940	SubC
A2	254.0	256.0	Middle/Lower Wyodak	9.77	19.57	27.43	----	5.16	----	----	----	----	----
A7	256.0	258.0	Middle/Lower Wyodak	7.00	21.25	26.76	----	3.48	----	----	----	----	----
A9	258.0	260.0	Middle/Lower Wyodak	9.47	18.45	26.17	----	3.05	----	----	----	----	----
A10	260.0	262.0	Middle/Lower Wyodak	8.64	16.91	24.09	----	4.35	----	----	----	----	----
A11	262.0	264.0	Middle/Lower Wyodak	9.04	17.02	24.52	----	3.79	----	----	----	----	----
A12	264.0	266.0	Middle/Lower Wyodak	10.28	17.37	25.86	----	3.76	----	----	----	----	----
A13	267.0	269.0	Middle/Lower Wyodak	7.47	20.13	26.10	----	3.51	----	----	----	----	----
A14	269.0	271.0	Middle/Lower Wyodak	11.11	18.36	27.43	----	3.24	----	----	----	----	----
A15	271.0	273.0	Middle/Lower Wyodak	9.36	19.50	27.03	25.04	2.46	32.08	38.43	8,790	9,030	SubC
A16	273.0	275.0	Middle/Lower Wyodak	9.85	17.85	25.94	----	2.51	----	----	----	----	----
A17	275.0	277.0	Middle/Lower Wyodak	10.84	13.15	22.56	----	3.11	----	----	----	----	----
A18	277.0	279.0	Middle/Lower Wyodak	8.60	17.49	24.59	----	3.63	----	----	----	----	----
A19	279.0	281.0	Middle/Lower Wyodak	10.10	12.24	21.10	----	7.55	----	----	----	----	----
A20	282.0	284.0	Middle/Lower Wyodak	7.69	21.18	27.24	----	4.03	----	----	----	----	----
A21	284.0	286.0	Middle/Lower Wyodak	10.46	21.70	29.89	----	3.32	----	----	----	----	----
A22	286.0	288.0	Middle/Lower Wyodak	10.80	17.30	26.23	----	3.90	----	----	----	----	----
A23	288.0	290.0	Middle/Lower Wyodak	10.04	15.93	24.37	----	3.21	----	----	----	----	----
A24	290.0	292.0	Middle/Lower Wyodak	11.28	16.01	25.48	----	3.45	----	----	----	----	----
A25	292.0	294.0	Middle/Lower Wyodak	9.69	17.78	25.75	24.47	3.72	33.34	37.19	9,150	9,530	SubB
A26	294.0	296.0	Middle/Lower Wyodak	11.13	17.80	26.95	----	5.94	----	----	----	----	----
48	297.0	299.0	Middle/Lower Wyodak	10.48	16.32	25.09	----	7.18	----	----	----	----	----
49	299.0	301.0	Middle/Lower Wyodak	13.69	17.24	28.57	----	2.76	----	----	----	----	----
50	301.0	303.0	Middle/Lower Wyodak	11.01	19.19	28.09	----	2.48	----	----	----	----	----
51	303.0	305.0	Middle/Lower Wyodak	13.38	18.37	29.29	----	1.92	----	----	----	----	----
52	305.0	307.0	Middle/Lower Wyodak	11.76	16.53	26.35	----	3.02	----	----	----	----	----
53	307.0	309.0	Middle/Lower Wyodak	12.29	15.48	25.87	----	2.78	----	----	----	----	----
54	309.0	311.0	Middle/Lower Wyodak	14.63	15.42	27.79	----	2.30	----	----	----	----	----
55	311.0	313.0	Middle/Lower Wyodak	10.46	18.29	26.76	----	3.60	----	----	----	----	----
57	313.0	315.0	Middle/Lower Wyodak	14.44	16.39	28.46	25.78	4.20	28.98	38.36	8,580	8,990	SubC
58	315.0	317.0	Middle/Lower Wyodak	12.05	18.40	28.23	----	3.17	----	----	----	----	----

Core Hole 17. Analyses for samples from the Peabody Natural Gas LLC., PNG 31-1 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
59	317.0	319.0	Middle/Lower Wyodak	12.35	18.02	28.14	----	3.42	----	----	----	----	----
61	319.0	321.0	Middle/Lower Wyodak	15.61	15.86	28.99	----	2.08	----	----	----	----	----
62	321.0	323.0	Middle/Lower Wyodak	12.75	17.84	28.32	----	4.07	----	----	----	----	----
63	323.0	325.0	Middle/Lower Wyodak	14.24	16.51	28.40	----	4.28	----	----	----	----	----
64	326.3	328.3	Middle/Lower Wyodak	14.43	15.11	27.36	----	3.13	----	----	----	----	----
66	328.3	330.3	Middle/Lower Wyodak	12.53	15.16	25.79	----	4.45	----	----	----	----	----
67	330.3	332.3	Middle/Lower Wyodak	14.63	13.41	26.08	----	4.16	----	----	----	----	----
68	332.3	334.3	Middle/Lower Wyodak	13.20	12.15	23.75	----	8.97	----	----	----	----	----

Core Hole 17. Analyses for samples from the Peabody Natural Gas LLC., PNG 31-1 core hole--Continued

Sample number		Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
		Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
A1	1	6.59	50.08	0.77	0.30	38.34	0.01	0.02	0.28	1.31
A2	2	6.52	50.14	0.74	0.32	37.12	----	----	----	----
A7	3	6.51	52.01	0.76	0.26	36.98	----	----	----	----
A9	4	6.44	52.46	0.72	0.29	37.04	----	----	----	----
A10	5	6.47	54.02	0.78	0.34	34.04	----	----	----	----
A11	6	6.48	53.71	0.76	0.27	34.99	----	----	----	----
A12	7	6.36	52.75	0.69	0.26	36.18	----	----	----	----
A13	8	6.54	52.66	0.75	0.18	36.36	----	----	----	----
A14	9	6.69	52.56	0.69	0.20	36.62	----	----	----	----
A15	#	6.71	52.61	0.67	0.14	37.41	0.01	0.01	0.12	1.34
A16	#	6.46	53.52	0.66	0.14	36.71	----	----	----	----
A17	#	6.39	55.47	0.72	0.18	34.13	----	----	----	----
A18	#	6.40	53.77	0.70	0.21	35.29	----	----	----	----
A19	#	6.24	53.95	0.69	0.24	31.33	----	----	----	----
A20	#	6.67	51.83	0.61	0.17	36.69	----	----	----	----
A21	#	6.74	50.24	0.59	0.14	38.97	----	----	----	----
A22	#	6.63	52.95	0.64	0.14	35.74	----	----	----	----
A23	#	6.64	54.49	0.61	0.18	34.87	----	----	----	----
A24	#	6.71	53.41	0.64	0.23	35.56	----	----	----	----
A25	#	6.72	53.16	0.62	0.18	35.60	0.01	0.01	0.17	1.33
A26	#	6.50	50.90	0.62	0.19	35.85	----	----	----	----
48	#	6.46	50.38	0.68	0.18	35.12	----	----	----	----
49	#	6.75	51.66	0.67	0.22	37.94	----	----	----	----
50	#	6.53	52.08	0.63	0.08	38.20	----	----	----	----
51	#	6.83	51.56	0.66	0.09	38.94	----	----	----	----
52	#	6.44	53.25	0.72	0.09	36.48	----	----	----	----
53	#	6.59	53.59	0.67	0.08	36.29	----	----	----	----
54	#	6.61	52.34	0.67	0.14	37.94	----	----	----	----
55	#	6.70	52.00	0.66	0.10	36.94	----	----	----	----
57	#	6.54	50.53	0.72	0.11	37.90	0.01	0.00	0.10	1.34
58	#	6.52	51.93	0.70	0.03	37.65	----	----	----	----

Core Hole 17. Analyses for samples from the Peabody Natural Gas LLC., PNG 31-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
59	6.58	52.00	0.77	0.04	37.19	----	----	----	----
61	6.62	51.92	0.69	0.14	38.55	----	----	----	----
62	6.71	51.24	0.69	0.19	37.10	----	----	----	----
63	6.79	50.84	0.74	0.19	37.16	----	----	----	----
64	6.58	52.42	0.78	0.18	36.91	----	----	----	----
66	6.70	53.25	0.76	0.25	34.59	----	----	----	----
67	6.74	52.40	0.80	0.44	35.46	----	----	----	----
68	6.36	49.73	0.77	0.76	33.41	----	----	----	----

Core Hole 18. Analyses for samples from the Peabody Natural Gas LLC., PNG 35-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
B1	322.0	324.0	Mid/Lower Wyodak	7.61	16.79	23.12	----	4.68	33.63	38.57	9,250	9,740	SubB
B2	324.0	326.0	Mid/Lower Wyodak	10.42	17.03	25.68	----	3.23	----	----	----	----	----
B4	328.0	330.0	Mid/Lower Wyodak	7.19	21.58	27.22	----	2.76	----	----	----	----	----
B5	330.0	332.0	Mid/Lower Wyodak	10.98	17.37	26.44	----	2.25	----	----	----	----	----
B6	332.0	334.0	Mid/Lower Wyodak	8.45	16.46	23.52	----	4.08	----	----	----	----	----
B7	334.0	326.0	Mid/Lower Wyodak	8.51	16.34	23.46	----	3.93	----	----	----	----	----
B8	322.0	324.0	Mid/Lower Wyodak	10.02	15.86	24.29	----	4.42	----	----	----	----	----
B9	324.0	326.0	Mid/Lower Wyodak	8.32	17.32	24.20	----	3.99	----	----	----	----	----
B10	327.0	329.0	Mid/Lower Wyodak	9.77	17.56	25.61	----	3.63	----	----	----	----	----
B11	329.0	331.0	Mid/Lower Wyodak	9.70	17.51	25.51	----	2.69	----	----	----	----	----
B12	331.0	333.0	Mid/Lower Wyodak	9.28	16.37	24.13	----	3.22	----	----	----	----	----
B13	333.0	335.0	Mid/Lower Wyodak	10.45	14.71	23.62	----	3.91	----	----	----	----	----
B14	335.0	337.0	Mid/Lower Wyodak	9.02	16.92	24.41	----	3.90	----	----	----	----	----
B15	337.0	339.0	Mid/Lower Wyodak	9.69	17.56	25.55	----	3.93	----	----	----	----	----
B16	339.0	341.0	Mid/Lower Wyodak	8.83	18.21	25.43	----	3.48	----	----	----	----	----
B17	342.0	344.0	Mid/Lower Wyodak	11.78	17.80	27.48	----	2.75	----	----	----	----	----
B18	344.0	346.0	Mid/Lower Wyodak	13.88	14.02	25.95	----	2.52	33.82	37.71	9,190	9,440	SubC
B19	346.0	348.0	Mid/Lower Wyodak	11.95	15.55	25.64	----	2.21	----	----	----	----	----
B20	348.0	350.0	Mid/Lower Wyodak	13.91	12.48	24.65	----	2.88	----	----	----	----	----
B21	350.0	352.0	Mid/Lower Wyodak	12.15	15.03	25.35	----	3.30	----	----	----	----	----
B22	352.0	354.0	Mid/Lower Wyodak	12.92	15.41	26.34	----	4.09	----	----	----	----	----
B23	354.0	356.0	Mid/Lower Wyodak	16.15	12.90	26.97	----	3.56	----	----	----	----	----
B24	357.0	359.0	Mid/Lower Wyodak	13.58	14.81	26.38	----	2.86	----	----	----	----	----
A3	359.0	361.0	Mid/Lower Wyodak	13.87	11.66	23.91	----	2.95	----	----	----	----	----
A5	361.0	363.0	Mid/Lower Wyodak	14.12	11.33	23.85	----	3.32	----	----	----	----	----
A6	363.0	365.0	Mid/Lower Wyodak	12.51	12.12	23.11	----	3.43	----	----	----	----	----
A8	365.0	367.0	Mid/Lower Wyodak	16.90	11.85	26.75	----	3.09	----	----	----	----	----
6	367.0	369.0	Mid/Lower Wyodak	13.45	14.28	25.81	----	5.77	----	----	----	----	----
10	369.0	371.0	Mid/Lower Wyodak	14.66	10.82	23.89	----	6.29	----	----	----	----	----
40	372.0	374.0	Mid/Lower Wyodak	14.78	12.82	25.71	----	2.54	----	----	----	----	----
41	374.0	376.0	Mid/Lower Wyodak	11.37	18.30	27.59	----	3.00	31.04	38.37	9,030	9,330	SubC
42	376.0	378.0	Mid/Lower Wyodak	12.71	15.33	26.09	----	2.80	----	----	----	----	----
43	378.0	380.0	Mid/Lower Wyodak	10.94	16.09	25.27	----	1.97	----	----	----	----	----
44	380.0	382.0	Mid/Lower Wyodak	14.98	15.91	28.51	----	4.53	----	----	----	----	----

Core Hole 18. Analyses for samples from the Peabody Natural Gas LLC., PNG 35-1 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
45	382.0	384.0	Middle/Lower Wyodak	12.64	15.60	26.27	----	2.52	----	----	----	----	----
46	384.0	386.0	Middle/Lower Wyodak	11.83	14.65	24.75	----	3.89	----	----	----	----	----
47	387.0	389.0	Middle/Lower Wyodak	13.56	13.27	25.03	----	2.58	----	----	----	----	----
56	389.0	391.0	Middle/Lower Wyodak	10.49	17.32	25.99	----	2.65	----	----	----	----	----
65	391.0	393.0	Middle/Lower Wyodak	15.80	14.80	28.26	----	2.00	----	----	----	----	----
69	393.0	395.0	Middle/Lower Wyodak	12.23	14.22	24.71	----	4.62	----	----	----	----	----
70	395.0	397.0	Middle/Lower Wyodak	14.12	17.69	29.31	----	2.30	----	----	----	----	----
71	397.0	399.0	Middle/Lower Wyodak	13.65	16.46	27.86	----	4.08	----	----	----	----	----
72	399.0	401.0	Middle/Lower Wyodak	14.07	16.19	27.98	----	3.26	30.15	38.61	8,910	9,240	SubC
73	401.0	403.0	Middle/Lower Wyodak	14.71	12.93	25.74	----	4.51	----	----	----	----	----
74	403.0	405.0	Middle/Lower Wyodak	12.84	14.02	25.06	----	7.76	----	----	----	----	----
75	405.0	407.0	Middle/Lower Wyodak	12.43	12.29	23.19	----	14.58	----	----	----	----	----

Core Hole 18. Analyses for samples from the Peabody Natural Gas LLC., PNG 35-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
B1	6.45	54.09	0.83	0.35	33.60	----	----	----	----
B2	6.54	52.92	0.75	0.27	36.29	----	----	----	----
B4	6.55	52.21	0.69	0.24	37.55	----	----	----	----
B5	6.56	52.89	0.65	0.21	37.44	----	----	----	----
B6	6.52	53.92	0.69	0.29	34.50	----	----	----	----
B7	6.59	54.88	0.69	0.30	33.61	----	----	----	----
B8	6.39	53.22	0.72	0.40	34.85	0.03	0.04	0.34	----
B9	6.54	53.42	0.87	0.31	34.87	0.02	0.01	0.28	----
B10	6.52	52.90	0.81	0.23	35.91	0.02	0.01	0.20	----
B11	6.59	53.59	0.79	0.26	36.08	0.02	0.01	0.23	----
B12	6.61	54.29	0.78	0.23	34.87	0.02	0.01	0.20	----
B13	6.60	54.23	0.78	0.26	34.22	0.02	0.01	0.24	----
B14	6.60	53.85	0.76	0.26	34.63	0.01	0.01	0.24	----
B15	6.56	53.10	0.77	0.23	35.41	0.01	0.00	0.22	----
B16	6.71	53.59	0.72	0.20	35.30	0.01	0.00	0.19	----
B17	6.87	52.70	0.61	0.21	36.86	0.01	0.03	0.17	----
B18	6.78	53.41	0.66	0.28	36.35	0.01	0.01	0.25	----
B19	6.76	54.44	0.62	0.24	35.73	0.01	0.01	0.21	----
B20	6.71	54.40	0.67	0.17	35.17	0.01	0.01	0.16	----
B21	6.75	53.30	0.62	0.20	35.83	0.02	0.01	0.17	----
B22	6.76	52.59	0.60	0.23	35.73	0.01	0.01	0.21	----
B23	6.66	52.29	0.57	0.18	36.74	0.01	0.00	0.17	----
B24	6.62	53.09	0.58	0.14	36.71	0.01	0.01	0.12	----
A3	6.79	55.20	0.64	0.15	34.27	0.02	0.01	0.12	----
A5	6.76	54.80	0.62	0.20	34.30	0.01	0.01	0.18	----
A6	6.64	55.53	0.62	0.17	33.61	0.01	0.01	0.15	----
A8	6.79	52.88	0.57	0.17	36.50	0.01	0.01	0.15	----
6	6.31	51.39	0.56	0.18	35.79	0.01	0.01	0.16	----
10	6.39	52.35	0.63	0.17	34.17	0.02	0.01	0.14	----
40	6.54	54.48	0.65	0.07	35.72	0.00	0.00	0.07	----
41	6.58	53.42	0.69	0.13	36.18	0.01	0.04	0.08	----
42	6.48	54.39	0.70	0.08	35.55	0.01	0.02	0.06	----
43	6.48	54.00	0.65	0.14	36.76	0.01	0.01	0.11	----
44	6.62	52.38	0.61	0.12	35.74	0.00	0.00	0.12	----

Core Hole 18. Analyses for samples from the Peabody Natural Gas LLC., PNG 35-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
45	6.58	53.52	0.64	0.09	36.65	0.01	0.01	0.09	----
46	6.29	53.87	0.74	0.14	35.07	0.01	0.01	0.10	----
47	6.29	54.86	0.79	0.1	35.38	0.01	0.01	0.06	----
56	6.53	54.11	0.79	0.09	35.83	0.01	0.01	0.08	----
65	6.60	52.76	0.67	0.08	37.89	0.01	0.01	0.06	----
69	6.38	54.03	0.79	0.16	34.02	0.01	0.01	0.13	----
70	6.68	51.61	0.72	0.12	38.57	0.01	0.01	0.12	----
71	6.52	51.51	0.75	0.18	36.96	0.01	0.01	0.18	----
72	6.53	52.19	0.77	0.21	37.04	0.01	0.01	0.14	----
73	6.53	53.42	0.79	0.24	34.51	0.01	0.01	0.14	----
74	6.47	50.52	0.81	0.41	34.03	0.01	0.01	0.24	----
75	6.25	46.27	0.79	0.82	31.29	0.01	0.27	0.18	----

Core Hole 19. Analyses for samples from the Barrett Resources Corporation, All Night Creek Unit (ANCU) Iberlin 21-33-4374 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C1	1,300.0	1,302.0	Big George	13.22	11.42	23.13	23.69	3.37	34.78	38.72	9,420	9,780	SubB
C2	1,302.0	1,304.0	Big George	15.37	9.88	23.73	----	3.39	----	----	----	----	----
C3	1,304.0	1,306.0	Big George	11.55	13.72	23.69	----	3.30	----	----	----	----	----
C5	1,309.0	1,311.0	Big George	12.52	12.58	23.52	----	3.09	----	----	----	----	----
C4	1,311.0	1,313.0	Big George	15.67	8.91	23.18	----	3.19	----	----	----	----	----
C6	1,316.0	1,318.0	Big George	15.67	9.51	23.69	----	3.82	----	----	----	----	----

Core Hole 19. Analyses for samples from the Barrett Resources Corporation, All Night Creek Unit (ANCU)
Iberlin 21-33-4374 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C1	6.54	55.08	0.64	0.14	34.23	----	----	----	1.28
C2	6.43	54.68	0.64	0.18	34.68	----	----	----	----
C3	6.55	54.62	0.66	0.12	34.75	----	----	----	----
C5	6.39	54.96	0.64	0.23	34.69	----	----	----	----
C4	6.37	54.89	0.63	0.15	34.77	----	----	----	----
C6	6.34	54.21	0.61	0.14	34.88	----	----	----	----

Core Hole 20. Analyses for samples from the Peabody Natural Gas LLC., PNG 16-2 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C7	213.0	215.0	Middle/Lower Wyodak	6.03	18.20	23.13	22.74	9.15	37.31	30.41	9,040	10,040	SubB
C8	215.0	217.0	Middle/Lower Wyodak	9.45	19.45	27.06	----	11.87	----	----	----	----	----
C9	217.0	219.0	Middle/Lower Wyodak	6.05	25.26	29.78	----	5.88	----	----	----	----	----
C10	219.0	221.0	Middle/Lower Wyodak	13.85	16.86	28.37	----	5.15	----	----	----	----	----
C11	221.0	223.0	Middle/Lower Wyodak	10.44	19.68	28.07	----	4.18	----	----	----	----	----
C12	223.0	225.0	Middle/Lower Wyodak	10.27	18.81	27.15	----	4.61	----	----	----	----	----
C13	225.0	227.0	Middle/Lower Wyodak	10.04	18.60	26.77	----	4.17	----	----	----	----	----
C14	228.0	230.0	Middle/Lower Wyodak	11.35	17.62	26.97	----	4.08	----	----	----	----	----
C15	230.0	232.0	Middle/Lower Wyodak	11.05	17.38	26.51	----	3.58	----	----	----	----	----
C16	232.0	234.0	Middle/Lower Wyodak	13.35	16.45	27.60	----	4.08	----	----	----	----	----
C17	234.0	236.0	Middle/Lower Wyodak	10.16	22.90	30.73	----	2.68	----	----	----	----	----
C18	236.0	238.0	Middle/Lower Wyodak	11.85	14.34	24.49	----	3.10	37.02	35.39	9,360	9,680	SubB
C19	238.0	240.0	Middle/Lower Wyodak	9.80	19.43	27.33	----	3.61	----	----	----	----	----
C20	240.0	242.0	Middle/Lower Wyodak	11.69	19.46	28.88	----	5.32	----	----	----	----	----
C21	243.0	245.0	Middle/Lower Wyodak	9.99	20.97	28.87	----	3.26	----	----	----	----	----
C22	245.0	247.0	Middle/Lower Wyodak	12.22	19.40	29.25	----	3.84	----	----	----	----	----
C23	247.0	249.0	Middle/Lower Wyodak	12.15	18.24	28.17	----	4.79	----	----	----	----	----
C24	249.0	251.0	Middle/Lower Wyodak	8.57	20.36	27.19	----	5.02	----	----	----	----	----
C26	251.0	253.0	Middle/Lower Wyodak	10.37	20.17	28.45	----	4.26	----	----	----	----	----
C27	253.0	255.0	Middle/Lower Wyodak	9.71	23.28	30.73	----	3.36	----	----	----	----	----
C28	255.0	257.0	Middle/Lower Wyodak	11.45	19.14	28.40	----	3.26	----	----	----	----	----
C29	258.0	260.0	Middle/Lower Wyodak	7.46	18.57	24.64	----	3.39	----	----	----	----	----
C30	260.0	262.0	Middle/Lower Wyodak	10.12	19.25	27.42	26.79	3.68	31.62	37.28	8,850	9,210	SubC
C31	262.0	264.0	Middle/Lower Wyodak	9.93	23.33	30.94	----	3.84	----	----	----	----	----
C32	264.0	266.0	Middle/Lower Wyodak	11.44	18.64	27.95	----	3.16	----	----	----	----	----
C33	266.0	268.0	Middle/Lower Wyodak	11.30	18.93	28.09	----	4.57	----	----	----	----	----
C35	268.0	270.0	Middle/Lower Wyodak	9.68	17.68	25.65	----	10.35	----	----	----	----	----

Core Hole 20. Analyses for samples from the Peabody Natural Gas LLC., PNG 16-2 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C36	270.0	272.0	Middle/Lower Wyodak	10.07	19.99	28.05	----	4.10	----	----	----	----	----
C37	273.0	275.0	Middle/Lower Wyodak	12.08	19.13	28.90	----	3.04	----	----	----	----	----
C38	275.0	277.0	Middle/Lower Wyodak	9.30	20.90	28.26	----	3.54	----	----	----	----	----
C39	277.0	279.0	Middle/Lower Wyodak	12.82	18.03	28.54	----	2.94	----	----	----	----	----
C40	279.0	281.0	Middle/Lower Wyodak	9.92	17.68	25.85	----	3.70	----	----	----	----	----
C41	281.0	283.0	Middle/Lower Wyodak	12.13	19.36	29.14	----	3.23	----	----	----	----	----
C42	283.0	285.0	Middle/Lower Wyodak	10.48	19.65	28.07	----	4.15	31.14	36.64	8,700	9,110	SubC

Core Hole 20. Analyses for samples from the Peabody Natural Gas LLC., PNG 16-2 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C7	6.71	50.19	0.71	1.43	31.81	0.12	0.24	1.07	----
C8	6.57	45.07	0.68	0.81	35.00	0.04	0.14	0.63	----
C9	6.80	47.63	0.67	0.85	38.17	0.07	0.21	0.57	----
C10	6.77	49.39	0.73	0.57	37.39	0.01	0.06	0.50	----
C11	6.73	50.30	0.69	0.35	37.75	0.01	0.04	0.30	----
C12	6.64	50.71	0.70	0.32	37.02	0.01	0.02	0.29	----
C13	6.57	51.02	0.71	0.33	37.20	0.01	0.01	0.31	----
C14	6.58	51.13	0.71	0.30	37.20	0.01	0.02	0.28	----
C15	6.60	51.72	0.69	0.31	37.10	0.01	0.01	0.29	----
C16	6.64	50.73	0.69	0.26	37.60	0.00	0.01	0.25	----
C17	6.83	49.78	0.63	0.20	39.88	0.01	0.01	0.19	----
C18	6.66	53.79	0.71	0.27	35.47	0.00	0.01	0.26	----
C19	6.82	51.47	0.68	0.35	37.07	0.02	0.01	0.32	----
C20	6.45	49.16	0.66	0.34	38.07	0.02	0.01	0.31	----
C21	6.82	50.47	0.60	0.24	38.61	0.01	0.01	0.23	----
C22	6.73	50.04	0.64	0.26	38.49	0.01	0.01	0.24	----
C23	6.59	49.93	0.64	0.29	37.76	0.05	0.02	0.22	----
C24	6.61	50.27	0.69	0.35	37.06	0.02	0.01	0.32	----
C26	6.49	50.18	0.68	0.27	38.12	0.01	0.01	0.25	----
C27	6.53	48.99	0.63	0.18	40.31	0.02	0.01	0.16	----
C28	6.64	50.90	0.67	0.16	38.37	0.01	0.00	0.15	----
C29	6.52	53.58	0.72	0.20	35.59	0.01	0.01	0.18	----
C30	6.61	51.68	0.59	0.19	37.25	0.02	0.00	0.17	----
C31	6.61	48.66	0.61	0.12	40.16	0.00	0.00	0.12	----
C32	6.82	51.16	0.69	0.19	37.98	0.01	0.00	0.18	----
C33	6.68	50.06	0.71	0.27	37.71	0.00	0.00	0.27	----
C35	6.12	47.34	0.63	0.70	34.86	0.13	0.18	0.39	----

Core Hole 20. Analyses for samples from the Peabody Natural Gas LLC., PNG 16-2 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C36	6.51	50.38	0.70	0.29	38.02	0.01	0.01	0.28	----
C37	6.80	50.77	0.69	0.18	38.52	0.01	0.00	0.17	----
C38	6.42	51.14	0.66	0.24	38.00	0.01	0.08	0.15	----
C39	6.56	51.35	0.72	0.33	38.10	0.01	0.18	0.15	----
C40	6.80	52.87	0.69	0.19	35.75	0.01	0.00	0.18	----
C41	6.72	50.45	0.72	0.19	38.69	0.01	0.00	0.18	----
C42	6.67	50.45	0.74	0.27	37.72	0.02	0.00	0.26	----

Core Hole 21. Analyses for samples from The Coteau Properties Co., Coteau MC00250C core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; LigA, lignite A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D20	167.0	169.0	Beulah	14.68	23.24	34.51	----	5.90	----	----	----	----	----
D21	173.0	175.0	Beulah	18.33	19.58	34.32	----	6.14	----	----	----	----	----
D22	438.2	440.2	unnamed 2	15.46	22.36	34.36	----	6.64	----	----	----	----	----
D23	440.2	442.2	unnamed 2	18.66	18.49	33.70	----	5.04	30.73	30.53	7,590	8,030	LigA
D24	443.0	445.0	unnamed 2	16.41	20.69	33.70	----	7.94	----	----	----	----	----
D25	445.0	447.0	unnamed 2	17.65	19.82	33.97	----	8.03	----	----	----	----	----
D26	571.0	573.4	unnamed 3	16.93	18.27	32.11	----	8.08	----	----	----	----	----

Core Hole 21. Analyses for samples from The Coteau Properties Co., Coteau MC00250C core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D20	6.72	44.02	0.61	0.67	42.08	0.03	0.17	0.47	----
D21	6.82	42.25	0.64	1.09	43.06	0.11	0.36	0.63	----
D22	6.73	42.81	0.64	0.65	42.53	0.16	0.08	0.41	----
D23	6.94	44.80	0.74	0.38	42.10	0.02	0.01	0.35	----
D24	6.53	41.90	0.69	0.40	42.54	0.02	0.02	0.37	----
D25	6.60	40.72	0.74	0.59	43.32	0.00	0.02	0.57	----
D26	6.62	43.00	0.76	0.67	40.87	0.02	0.05	0.60	----

Core Hole 22. Analyses for samples from the The Coteau Properties Co., Coteau MC00251 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; LigA, lignite A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D27	788.0	793.0	unnamed 4	11.11	25.58	33.85	----	10.94	----	----	----	----	----
D28	793.0	794.0	unnamed 4	14.69	16.25	28.55	29.81	19.55	26.66	25.24	6,460	8,180	Lig A
D29	794.0	796.0	unnamed 4	13.20	22.08	32.37	----	7.86	----	----	----	----	----

Core Hole 22. Analyses for samples from The Coteau Properties Co., Coteau MC00251 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D27	6.59	39.90	0.63	1.41	40.53	0.12	0.40	0.89	----
D28	5.88	37.71	0.64	0.70	35.52	0.04	0.13	0.52	1.39
D29	6.55	42.99	0.75	0.43	41.42	0.01	0.01	0.41	----

Core Hole 23. Analyses for samples from the Ammonite Energy Texas, Inc., Thomas Jefferson State 36-3 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D1	337.0	339.0	School Bed	15.03	15.01	27.78	27.48	5.55	33.44	33.23	8,130	8,650	Sub C
D2	339.0	341.0	School Bed	15.00	14.09	26.98	----	5.28	----	----	----	----	----
D3	341.0	343.0	School Bed	10.32	12.03	21.11	----	36.14	----	----	----	----	----
D4	343.0	345.0	School Bed	14.66	12.99	25.75	----	9.84	----	----	----	----	----
D5	345.0	347.0	School Bed	15.45	9.78	23.72	----	7.66	----	----	----	----	----
D6	347.0	349.0	School Bed	13.98	13.62	25.70	----	11.84	----	----	----	----	----
D7	349.0	351.0	School Bed	15.03	15.75	28.41	----	9.72	----	----	----	----	----
D8	351.0	353.0	School Bed	13.69	13.02	24.93	----	11.99	----	----	----	----	----
D9	353.0	355.0	School Bed	13.50	13.34	25.04	25.01	11.79	34.78	28.39	7,920	9,070	Sub C

Core Hole 23. Analyses for samples from the Ammonite Energy Texas, Inc., Thomas Jefferson State 36-3 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D1	6.50	47.84	0.64	0.37	39.10	0.01	0.02	0.34	1.34
D2	6.64	49.07	0.68	0.37	37.96	0.01	0.01	0.35	----
D3	4.82	29.58	0.50	0.26	28.70	0.01	0.03	0.22	----
D4	6.27	47.07	0.61	1.65	34.56	0.18	0.84	0.63	----
D5	6.56	50.01	0.68	0.44	34.65	0.00	0.01	0.43	----
D6	6.18	44.66	0.63	0.41	36.28	0.02	0.01	0.38	----
D7	6.34	44.45	0.69	0.38	38.42	0.03	0.01	0.34	----
D8	6.33	45.47	0.68	0.50	35.03	0.00	0.01	0.49	----
D9	6.37	45.61	0.75	0.66	34.82	0.02	0.06	0.58	1.36

Core Hole 24. Analyses for samples from the Bridger Coal Company, BCX-9 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubA, subbituminous A coal; hvCb, high volatile C bituminous coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D10	943.2	945.0	Deadman 4	6.13	17.59	22.64	19.49	3.23	29.86	44.27	10,200	10,570	SubA
D11	945.0	947.0	Deadman 4	7.39	8.88	15.61	----	11.87	----	----	----	----	----
D12	947.0	949.0	Deadman 4	6.04	12.35	17.64	----	8.14	----	----	----	----	----
D13	949.0	951.0	Deadman 4	6.70	7.29	13.50	----	18.10	----	----	----	----	----
D14	951.0	953.0	Deadman 4	6.25	10.84	16.41	----	6.35	----	----	----	----	----
D15	953.0	955.0	Deadman 4	8.00	7.93	15.30	15.26	4.74	34.12	45.84	11,080	11,690	hvCb

Core Hole 24. Analyses for samples from the Bridger Coal Company, BCX-9 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D10	6.36	58.45	1.10	0.49	30.37	0.01	0.18	0.30	1.33
D11	5.75	57.44	1.05	0.52	23.37	0.00	0.15	0.37	----
D12	5.69	58.19	1.01	0.83	26.14	0.03	0.33	0.48	----
D13	4.65	52.75	0.93	0.71	22.86	0.03	0.38	0.31	----
D14	5.71	61.47	1.08	0.67	24.72	0.02	0.39	0.27	----
D15	6.03	63.30	1.22	0.65	24.06	0.02	0.29	0.34	1.31

Core Hole 25. Analyses for samples from the Peabody Natural Gas LLC., Duvall 13J-D core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D30	1,238.0	1,240.0	Pawnee	6.10	18.64	23.60	24.62	4.77	29.89	41.74	9,470	9,990	SubC
D31	1,240.0	1,242.0	Pawnee	9.73	16.72	24.82	----	3.97	----	----	----	----	----
D32	1,242.0	1,244.0	Pawnee	6.98	21.36	26.85	----	4.18	----	----	----	----	----
D33	1,244.0	1,246.0	Pawnee	10.17	18.42	26.72	----	3.52	----	----	----	----	----
D34	1,246.0	1,248.0	Pawnee	4.45	20.44	23.98	24.06	24.28	23.39	28.35	6,780	9,180	SubC

Core Hole 25. Analyses for samples from the Peabody Natural Gas LLC., Duvall 13J-D core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D30	6.27	55.38	0.83	0.54	32.21	0.02	0.38	0.13	1.25
D31	6.55	55.01	0.80	0.24	33.43	0.02	0.12	0.10	----
D32	6.52	53.10	0.80	0.19	35.21	0.01	0.05	0.13	----
D33	6.63	53.70	0.81	0.27	35.07	0.01	0.08	0.19	----
D34	5.54	38.71	0.56	0.66	30.25	0.01	0.32	0.32	1.48

Core Hole 26. Analyses for samples from the Barrett Resources Corporation, KU Harriett 41-34-4777 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D35	1,313.0	1,315.0	Big George	6.08	14.34	19.55	19.34	1.94	35.62	42.89	10,350	10,570	Sub A
D36	1,315.0	1,317.0	Big George	6.54	10.60	16.45	----	3.50	----	----	----	----	----
D37	1,317.0	1,319.0	Big George	6.46	14.59	20.11	----	1.88	----	----	----	----	----
D38	1,319.0	1,321.0	Big George	7.40	13.47	19.87	----	2.29	----	----	----	----	----
D39	1,321.0	1,323.0	Big George	6.86	14.67	20.52	----	1.58	----	----	----	----	----
D40	1,323.0	1,325.0	Big George	6.75	16.30	21.95	----	2.50	----	----	----	----	----
D41	1,325.0	1,327.0	Big George	8.39	13.60	20.82	----	2.21	----	----	----	----	----
D42	1,327.0	1,329.0	Big George	0.31	15.65	20.97	----	2.24	----	----	----	----	----
D43	1,329.0	1,331.0	Big George	8.42	12.60	19.96	----	2.18	----	----	----	----	----
D44	1,331.0	1,333.0	Big George	6.42	13.23	18.80	----	3.82	----	----	----	----	----
D45	1,333.0	1,335.0	Big George	5.56	12.47	17.34	----	4.35	----	----	----	----	----
D46	1,335.0	1,337.0	Big George	7.58	14.16	20.67	----	2.43	----	----	----	----	----
D47	1,338.0	1,340.0	Big George	6.41	15.40	20.82	----	2.60	----	----	----	----	----
D48	1,340.0	1,342.0	Big George	7.97	12.07	19.08	----	3.10	----	----	----	----	----
D49	1,342.0	1,344.0	Big George	6.19	12.81	18.21	----	3.72	----	----	----	----	----
D50	1,344.0	1,346.0	Big George	5.42	13.76	18.43	----	3.27	----	----	----	----	----
D51	1,346.0	1,348.0	Big George	6.26	12.19	17.69	----	3.11	----	----	----	----	----
D52	1,348.0	1,350.0	Big George	5.59	13.16	18.01	----	2.92	----	----	----	----	----
D53	1,350.0	1,352.0	Big George	7.50	12.61	19.16	----	2.47	----	----	----	----	----
D54	1,352.0	1,354.0	Big George	6.99	13.80	19.83	----	2.46	----	----	----	----	----
D55	1,354.0	1,356.0	Big George	3.99	15.39	18.77	----	1.98	----	----	----	----	----
D56	1,356.0	1,358.0	Big George	5.40	14.71	19.32	----	1.98	----	----	----	----	----
D5	1,358.0	1,360.0	Big George	3.24	15.51	18.25	----	2.57	----	----	----	----	----
D8	1,360.0	1,362.0	Big George	4.86	14.58	18.73	----	2.04	----	----	----	----	----
D9	1,362.0	1,364.0	Big George	4.25	16.55	20.10	----	2.70	----	----	----	----	----
D10	1,364.0	1,366.0	Big George	3.88	18.04	21.22	----	1.95	----	----	----	----	----
D11	1,366.0	1,368.0	Big George	4.92	14.83	19.02	----	3.08	----	----	----	----	----
D12	1,368.0	1,370.0	Big George	1.85	12.10	13.73	----	38.86	----	----	----	----	----
D15	1,370.0	1,372.0	Big George	5.07	16.10	20.35	----	5.10	----	----	----	----	----
D16	1,372.0	1,374.0	Big George	4.54	18.01	21.73	----	2.12	----	----	----	----	----
D17	1,374.0	1,376.0	Big George	5.32	15.57	20.06	----	2.61	----	----	----	----	----
D18	1,376.0	1,378.0	Big George	6.76	13.60	19.44	----	2.95	----	----	----	----	----
D19	1,378.0	1,380.0	Big George	5.39	14.51	19.12	----	2.70	----	----	----	----	----

Core Hole 26. Analyses for samples from the Barrett Resources Corporation, KU Harriett 41-34-4777 core hole--Continued

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D23	1,380.0	1,382.0	Big George	6.38	14.79	20.23	----	1.83	----	----	----	----	----
D25	1,382.0	1,384.0	Big George	4.66	15.51	19.45	----	1.96	----	----	----	----	----
D26	1,384.0	1,386.0	Big George	4.99	14.92	19.17	----	4.24	----	----	----	----	----
D28	1,386.0	1,388.0	Big George	5.90	16.81	21.72	20.35	2.10	30.04	46.14	10,070	10,310	Sub B
26	1,389.5	1,391.5	Big George	5.49	17.34	21.88	----	1.81	----	----	----	----	----
27	1,391.5	1,393.5	Big George	6.44	14.85	20.33	----	2.86	----	----	----	----	----
28	1,393.5	1,395.5	Big George	6.48	14.23	19.79	----	3.86	----	----	----	----	----
29	1,395.5	1,397.5	Big George	3.44	16.65	19.52	----	2.88	----	----	----	----	----
30	1,397.5	1,399.5	Big George	4.90	13.95	18.17	----	2.61	----	----	----	----	----
31	1,399.5	1,401.5	Big George	3.38	15.79	18.64	----	3.55	----	----	----	----	----
32	1,401.5	1,403.5	Big George	4.20	16.23	19.75	----	2.64	----	----	----	----	----
33	1,403.5	1,405.5	Big George	3.73	17.57	20.64	----	2.37	----	----	----	----	----
34	1,405.5	1,407.5	Big George	3.57	16.32	19.31	----	5.99	----	----	----	----	----
35	1,407.5	1,409.5	Big George	4.11	15.41	18.89	----	8.38	----	----	----	----	----
36	1,409.5	1,411.5	Big George	3.76	14.71	17.92	----	3.23	----	----	----	----	----
37	1,411.5	1,413.5	Big George	4.30	13.92	17.62	----	2.75	----	----	----	----	----
38	1,413.5	1,415.5	Big George	2.85	12.88	15.36	----	10.67	----	----	----	----	----
39	1,415.5	1,417.5	Big George	2.85	11.53	14.05	13.33	7.78	38.28	39.89	10,570	11,550	HvolC

Core Hole 26. Analyses for samples from the Barrett Resources Corporation, KU Harriett 41-34-4777 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D35	6.44	59.94	1.26	0.16	30.26	0.02	0.01	0.13	1.28
D36	6.52	61.60	1.17	0.19	27.02	----	----	----	----
D37	6.37	59.05	1.15	0.15	31.40	----	----	----	----
D38	6.33	59.61	1.12	0.16	30.49	----	----	----	----
D39	6.45	59.20	1.06	0.15	31.56	----	----	----	----
D40	6.39	57.78	0.99	0.17	32.17	----	----	----	----
D41	6.38	58.77	0.96	0.16	31.52	----	----	----	----
D42	6.38	58.91	0.94	0.19	31.34	----	----	----	----
D43	6.44	59.34	0.90	0.20	30.94	----	----	----	----
D44	6.39	58.95	0.92	0.35	29.57	----	----	----	----
D45	6.47	59.69	0.83	0.78	27.88	----	----	----	----
D46	6.35	58.41	0.73	0.29	31.79	----	----	----	----
D47	6.36	58.35	0.73	0.24	31.72	----	----	----	----
D48	6.39	59.05	0.75	0.23	30.48	----	----	----	----
D49	6.41	59.97	0.78	0.24	28.88	----	----	----	----
D50	6.27	60.10	0.74	0.20	29.42	----	----	----	----
D51	6.33	60.58	0.75	0.18	29.05	----	----	----	----
D52	6.14	60.38	0.73	0.18	29.65	----	----	----	----
D53	6.30	59.83	0.69	0.16	30.55	----	----	----	----
D54	6.20	59.44	0.62	0.11	31.17	----	----	----	----
D55	6.34	61.11	0.69	0.12	29.76	----	----	----	----
D56	6.35	60.44	0.69	0.14	30.40	----	----	----	----
D5	6.42	61.07	0.74	0.16	29.04	----	----	----	----
D8	6.48	60.74	0.79	0.17	29.78	----	----	----	----
D9	6.07	59.77	0.71	0.13	30.62	----	----	----	----
D10	6.16	59.34	0.66	0.14	31.75	----	----	----	----
D11	6.21	60.27	0.75	0.24	29.45	----	----	----	----
D12	4.29	32.80	0.43	2.57	21.05	----	----	----	----
D15	6.06	57.78	0.65	1.15	29.26	----	----	----	----
D16	6.25	58.53	0.60	0.58	31.92	----	----	----	----
D17	6.07	60.13	0.67	0.41	30.11	----	----	----	----
D18	6.16	59.78	0.75	0.29	30.07	----	----	----	----
D19	6.35	60.48	0.74	0.20	29.53	----	----	----	----

Core Hole 26. Analyses for samples from the Barrett Resources Corporation, KU Harriett 41-34-4777 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D23	6.56	59.95	0.69	0.14	30.83	----	----	----	----
D25	6.46	60.5	0.75	0.15	30.18	----	----	----	----
D26	6.08	59.07	0.73	0.2	29.68	----	----	----	----
D28	6.20	58.95	0.68	0.11	31.96	0.03	0.01	0.08	1.33
26	6.21	58.6	0.72	0.07	32.59	----	----	----	----
27	6.07	59.6	0.78	0.07	30.62	----	----	----	----
28	6.17	58.07	0.78	0.1	31.02	----	----	----	----
29	6.12	60.01	0.85	0.17	29.97	----	----	----	----
30	6.20	60.65	0.88	0.13	29.53	----	----	----	----
31	6.10	59.06	0.92	0.16	30.21	----	----	----	----
32	6.16	60.47	0.89	0.11	29.73	----	----	----	----
33	6.12	59.89	0.86	0.09	30.67	----	----	----	----
34	6.03	56.62	0.93	0.63	29.8	----	----	----	----
35	5.83	55.57	0.92	0.19	29.11	----	----	----	----
36	6.20	60.71	1.01	0.21	28.64	----	----	----	----
37	6.35	61.22	1.08	0.27	28.33	----	----	----	----
38	5.93	55.47	0.8	0.8	26.14	----	----	----	----
39	6.03	59.41	1.02	1.11	24.65	----	----	----	1.33

Core Hole 27. Analyses for samples from the Peabody Natural Gas LLC., Carter-Federal 18F-D core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
5	1,527.0	1,529.0	Pawnee	8.09	15.45	22.24	20.41	9.01	30.99	37.76	9,200	10,190	SubB
4	1,529.0	1,531.0	Pawnee	11.06	13.11	22.72	----	5.73	----	----	----	----	----
3	1,531.0	1,533.0	Pawnee	10.37	13.33	22.32	----	5.81	----	----	----	----	----
2	1,533.0	1,535.0	Pawnee	13.49	12.24	24.08	----	4.33	----	----	----	----	----
1	1,535.0	1,537.0	Pawnee	8.10	18.01	24.65	----	2.67	----	----	----	----	----
9	1,537.0	1,539.5	Pawnee	10.74	13.49	22.78	----	4.20	----	----	----	----	----
8	1,539.5	1,542.0	Pawnee	9.04	15.02	22.70	----	3.33	----	----	----	----	----
7	1,542.0	1,544.5	Pawnee	11.15	14.36	23.91	----	3.98	----	----	----	----	----
6	1,544.5	1,547.0	Pawnee	9.41	18.91	26.54	----	3.24	----	----	----	----	----
12	1,547.0	1,549.0	Pawnee	8.90	14.79	22.37	----	3.17	----	----	----	----	----
11	1,549.0	1,551.0	Pawnee	7.83	14.52	21.21	20.96	16.66	29.41	32.72	8,290	10,110	SubB
14	1,704.0	1,706.0	Cache	10.50	14.63	23.59	22.37	4.26	28.93	43.22	9,580	10,040	SubB
13	1,706.0	1,708.0	Cache	11.83	13.95	24.13	----	3.54	----	----	----	----	----
19	1,708.0	1,710.0	Cache	8.64	13.99	21.42	----	4.06	----	----	----	----	----
18	1,710.0	1,712.0	Cache	14.77	10.52	23.74	----	3.70	----	----	----	----	----
17	1,712.0	1,714.0	Cache	9.11	15.68	23.36	----	3.46	----	----	----	----	----
16	1,714.0	1,716.0	Cache	11.55	13.98	23.92	----	4.21	----	----	----	----	----
15	1,716.0	1,718.0	Cache	10.35	14.90	23.71	----	4.16	----	----	----	----	----
24	1,718.0	1,720.0	Cache	12.70	13.08	24.12	----	3.33	----	----	----	----	----
23	1,720.0	1,722.0	Cache	10.44	13.10	22.17	----	3.53	----	----	----	----	----
22	1,722.0	1,724.0	Cache	13.09	9.34	21.21	----	4.19	----	----	----	----	----
21	1,724.0	1,726.0	Cache	10.34	13.29	22.26	----	4.90	----	----	----	----	----
20	1,726.0	1,728.0	Cache	6.28	18.03	23.18	----	3.58	----	----	----	----	----
43	1,728.0	1,729.0	Cache	5.00	19.20	23.24	----	3.92	----	----	----	----	----
42	1,729.0	1,731.0	Cache	4.32	20.12	23.57	----	3.99	----	----	----	----	----
40	1,731.0	1,733.0	Cache	8.98	16.94	24.40	----	3.41	----	----	----	----	----
25	1,733.0	1,735.0	Cache	7.42	17.34	23.47	23.4	6.19	29.6	40.74	9,430	10,110	SubB

Core Hole 27. Analyses for samples from the Peabody Natural Gas LLC., Carter-Federal 18F-D core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
5	6.15	53.17	0.95	0.03	30.42	0.00	0.00	0.03	1.3
4	6.20	54.94	0.89	0.19	32.05	0.01	0.01	0.17	----
3	6.32	55.35	0.90	0.14	31.48	0.02	0.00	0.12	----
2	6.22	55.09	0.87	0.10	33.39	0.01	0.00	0.09	----
1	6.39	56.12	0.85	0.10	33.87	0.02	0.01	0.08	----
9	6.17	56.28	0.87	0.09	32.39	0.03	0.01	0.05	----
8	6.25	57.09	0.88	0.10	32.35	0.03	0.01	0.06	----
7	6.32	55.67	0.84	0.10	33.09	0.00	0.01	0.09	----
6	6.44	54.14	0.87	0.12	35.19	0.03	0.00	0.09	----
12	6.30	57.42	0.92	0.14	32.05	0.02	0.00	0.12	----
11	5.80	47.65	0.78	0.30	28.81	0.02	0.02	0.26	1.35
14	6.33	56.19	0.96	0.16	32.10	0.03	0.02	0.11	1.28
13	6.63	56.91	0.92	0.15	31.85	0.05	0.01	0.09	----
19	6.42	57.72	0.90	1.09	29.81	0.08	0.08	0.93	----
18	6.38	56.44	0.90	0.07	32.51	0.04	0.01	0.03	----
17	6.32	56.94	0.94	0.11	32.23	0.01	0.01	0.09	----
16	6.48	55.82	0.87	0.10	32.52	0.03	0.01	0.06	----
15	6.36	56.55	0.90	0.08	31.95	0.00	0.01	0.07	----
24	6.39	56.64	0.89	0.09	32.66	0.01	0.01	0.07	----
23	6.38	57.83	0.96	0.11	31.19	0.00	0.01	0.10	----
22	6.29	58.34	0.93	0.11	30.14	0.01	0.01	0.09	----
21	6.26	57.09	1.02	0.13	30.60	0.01	0.01	0.11	----
20	6.33	57.12	0.96	0.20	31.81	0.03	0.03	0.15	----
43	6.20	56.91	0.89	0.19	31.89	0.02	0.02	0.16	----
42	6.15	56.93	0.93	0.17	31.83	0.02	0.01	0.14	----
40	6.31	56.65	0.91	0.26	32.46	0.01	0.02	0.23	----
25	6.34	54.38	0.86	0.58	31.65	0.03	0.13	0.42	1.26

Core Hole 28. Analyses for samples from the Nance Petroleum Corporation, Remington 58-79-30-07A core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
B5	320.0	332.0	Anderson	15.83	14.54	28.07	----	3.97	----	----	----	----	----
B7	324.0	326.0	Anderson	16.15	15.73	29.34	----	3.23	----	----	----	----	----
B13	326.0	328.0	Anderson	11.59	15.03	24.88	----	5.00	----	----	----	----	----
B9	328.0	330.0	Anderson	14.24	15.68	27.69	27.35	3.78	30.53	38	8,830	9,210	SubC
B10	330.0	332.0	Anderson	12.65	16.83	27.35	----	4.46	----	----	----	----	----
B6	332.0	324.0	Anderson	12.16	18.21	28.16	27.16	3.75	29.79	38.3	8,770	9,140	SubC
B15	332.0	334.0	Anderson	15.35	14.01	27.21	----	4.59	----	----	----	----	----
B12	334.0	336.0	Anderson	11.64	17.37	26.99	27.17	4.96	32.32	35.73	8,860	9,360	SubC

Core Hole 28. Analyses for samples from the Nance Petroleum Corporation, Remington 58-79-30-07A core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
B5	6.68	51.38	1.09	0.20	36.68	----	----	----	----
B7	6.80	50.62	1.26	0.28	37.81	----	----	----	----
B13	6.30	53.17	1.12	0.47	33.94	----	----	----	----
B9	6.66	51.58	1.21	0.25	36.52	0.02	0.02	0.22	1.27
B10	6.67	51.18	1.21	0.64	35.84	----	----	----	----
B6	6.68	51.33	1.19	0.17	36.88	0.01	0.02	0.14	1.31
B15	6.65	51.31	1.26	0.52	35.67	----	----	----	----
B12	6.67	51.10	1.21	0.57	35.49	0.01	0.03	0.54	1.34

Core Hole 29. Analyses for samples from the Nance Petroleum Corporation, Remington 57-79-18-03R core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C1	2,190.5	2,192.5	Roberts	3.46	15.05	17.99	----	38.58	----	----	----	----	----
C2	2,192.5	2,194.5	Roberts	6.18	19.37	24.35	18.11	5.52	30.32	39.81	9,510	10,110	SubB
C3	2,194.5	2,196.5	Roberts	5.17	19.28	23.45	----	5.42	----	----	----	----	----
C4	2,196.5	2,198.5	Roberts	6.26	16.72	21.93	14.74	4.80	33.4	39.87	10,070	10,620	SubA
C5	2,198.5	2,200.5	Roberts	5.06	21.20	25.19	----	5.83	----	----	----	----	----
C6	2,200.5	2,202.5	Roberts	6.40	16.77	22.10	----	3.87	----	----	----	----	----
C8	2,202.5	2,204.5	Roberts	5.58	18.98	23.50	17.71	4.20	33.11	39.19	9,870	10,340	SubB

Core Hole 29. Analyses for samples from the Nance Petroleum Corporation, Remington 57-79-18-03R core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C1	4.65	31.64	0.71	0.78	23.64	0.00	0.22	0.56	----
C2	6.38	54.35	1.07	0.52	32.16	0.01	0.05	0.47	1.38
C3	6.45	55.93	1.12	0.27	30.81	0.01	0.03	0.23	----
C4	6.59	57.26	1.18	0.19	29.98	0.01	0.04	0.14	1.35
C5	6.62	53.36	1.11	0.13	32.95	0.01	0.05	0.07	----
C6	6.66	57.84	1.18	0.12	30.33	0.02	0.03	0.08	----
C8	6.69	56.10	1.23	0.11	31.67	0.01	0.03	0.06	1.28

Core Hole 30. Analyses for samples from the Nance Petroleum Corporation, Remington 58-79-30-01C core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
B16	633.0	635.0	Canyon	13.54	14.02	25.66	25.00	4.44	29.71	40.19	9,100	9,550	SubB
B17	635.0	637.0	Canyon	13.53	13.77	25.44	----	2.54	----	----	----	----	----
B18	637.0	639.0	Canyon	13.02	15.33	26.35	----	2.62	----	----	----	----	----
B19	639.0	641.0	Canyon	11.56	14.49	24.37	26.17	2.90	31.75	40.98	9,510	9,810	SubB
B20	641.0	643.0	Canyon	7.86	19.11	25.47	----	2.90	----	----	----	----	----
B21	643.0	645.0	Canyon	10.52	16.87	25.62	----	2.85	----	----	----	----	----
B22	645.0	647.0	Canyon	7.31	18.25	24.23	25.42	7.94	28.58	39.25	8,750	9,570	SubB

Core Hole 30. Analyses for samples from the Nance Petroleum Corporation, Remington 58-79-30-01C core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
B16	6.39	53.36	1.20	0.26	34.35	0.02	0.03	0.21	1.31
B17	6.53	54.37	1.24	0.21	35.11	0.01	0.02	0.19	----
B18	6.60	53.71	1.32	0.16	35.59	0.04	0.01	0.10	----
B19	6.49	55.21	1.33	0.18	33.89	0.02	0.02	0.15	1.27
B20	6.38	54.50	1.25	0.22	34.75	0.02	0.03	0.17	----
B21	6.39	54.72	1.34	0.35	34.35	0.01	0.04	0.30	----
B22	6.08	50.89	1.33	0.47	33.29	0.02	0.09	0.36	1.36

Core Hole 31. Analyses for samples from the Williams Production RMT Company, Bullwacker Creek Unit (BCU) 32-9-4277 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal; SubA, subbituminous A coal. Values reported on an as-

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
C7	1,402.9	1,404.9	Big George	6.15	13.36	18.69	18.76	3.63	36.5	41.18	10,170	10,590	Sub A
C9	1,409.0	1,410.8	Big George	7.67	11.47	18.26	----	4.15	----	----	----	----	----
C10	1,410.8	1,413.0	Big George	5.14	13.53	17.97	----	3.98	----	----	----	----	----
C11	1,413.0	1,415.3	Big George	7.67	11.81	18.57	----	3.92	----	----	----	----	----
C12	1,418.0	1,419.4	Big George	4.08	10.90	14.54	----	6.69	----	----	----	----	----
C13	1,419.4	1,421.4	Big George	5.59	11.31	16.27	----	4.99	----	----	----	----	----
C14	1,421.4	1,423.4	Big George	4.65	10.70	14.85	----	5.83	----	----	----	----	----
C15	1,423.4	1,425.4	Big George	6.69	11.74	17.64	----	4.45	----	----	----	----	----
C16	1,425.4	1,427.4	Big George	5.60	14.70	19.48	----	3.40	----	----	----	----	----
C26	1,428.0	1,429.8	Big George	3.60	10.55	13.77	----	35.01	----	----	----	----	----
C17	1,429.8	1,431.6	Big George	4.76	15.53	19.55	----	3.44	----	----	----	----	----
C29	1,431.6	1,433.4	Big George	7.28	15.92	22.04	20.59	2.65	34.07	41.24	9,800	10,090	Sub B
C19	1,433.4	1,435.2	Big George	17.26	12.09	27.26	----	8.37	----	----	----	----	----
C20	1,435.2	1,437.0	Big George	7.01	10.42	16.70	----	4.06	----	----	----	----	----
C21	1,437.0	1,438.8	Big George	6.01	12.55	17.81	----	3.38	----	----	----	----	----
C22	1,438.8	1,440.6	Big George	7.81	11.32	18.25	----	3.01	----	----	----	----	----
C23	1,440.6	1,442.4	Big George	6.83	13.11	19.04	----	2.70	----	----	----	----	----
C24	1,442.4	1,444.2	Big George	7.37	12.19	18.66	----	4.69	----	----	----	----	----
C27	1,444.2	1,446.0	Big George	7.28	9.95	16.51	----	5.63	----	----	----	----	----
C33	1,446.0	1,448.0	Big George	4.58	10.81	14.89	----	24.77	----	----	----	----	----
C28	1,448.0	1,450.0	Big George	7.40	8.83	15.58	14.52	13.94	37.08	33.4	9,330	10,990	SubA
C31	1,450.0	1,452.0	Big George	8.43	11.94	19.36	----	3.42	----	----	----	----	----
C32	1,452.0	1,454.0	Big George	5.37	13.66	18.30	----	3.12	----	----	----	----	----
C35	1,454.2	1,456.1	Big George	6.03	8.69	14.20	----	6.02	----	----	----	----	----
C36	1,456.1	1,458.1	Big George	5.55	14.52	19.26	----	3.06	----	----	----	----	----
C37	1,458.1	1,460.0	Big George	6.85	10.53	16.66	----	3.71	----	----	----	----	----
C38	1,460.0	1,462.0	Big George	8.07	13.01	20.03	----	2.11	----	----	----	----	----
C39	1,462.0	1,464.0	Big George	5.95	14.13	19.24	----	2.44	----	----	----	----	----
C40	1,464.0	1,466.0	Big George	6.04	10.22	15.64	----	4.02	----	----	----	----	----
C41	1,466.0	1,468.0	Big George	4.77	13.08	17.23	----	4.22	----	----	----	----	----
C42	1,468.0	1,470.0	Big George	7.07	12.71	18.88	----	3.14	----	----	----	----	----
C43	1,470.0	1,471.8	Big George	6.49	13.36	18.98	18.73	2.96	38.71	39.35	10,180	10,520	SubA

Core Hole 31. Analyses for samples from the Williams Production RMT Company, Bullwacker Creek Unit (BCU) 32-9-4277 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
C7	6.29	58.54	0.59	0.34	30.61	----	----	----	1.28
C9	6.35	58.57	0.55	0.27	30.11	----	----	----	----
C10	6.43	58.50	0.52	0.29	30.28	----	----	----	----
C11	6.23	58.07	0.52	0.25	31.01	----	----	----	----
C12	6.79	59.96	0.60	0.65	25.31	----	----	----	----
C13	6.56	59.69	0.57	0.47	27.72	----	----	----	----
C14	6.65	60.32	0.61	0.44	26.15	----	----	----	----
C15	6.27	58.63	0.50	0.31	29.84	----	----	----	----
C16	6.46	58.07	0.49	0.30	31.28	----	----	----	----
C26	4.63	35.47	0.29	1.22	23.38	0.03	0.77	0.42	----
C17	6.57	57.96	0.51	0.34	31.18	----	----	----	----
C29	6.43	56.84	0.36	0.20	33.52	0.02	0.01	0.17	1.34
C19	6.17	55.82	0.45	0.39	28.80	----	----	----	----
C20	6.66	59.99	0.51	0.34	28.44	----	----	----	----
C21	6.62	59.25	0.50	0.24	30.01	0.01	0.01	0.22	----
C22	6.44	59.27	0.50	0.20	30.58	0.01	0.01	0.18	----
C23	6.45	59.00	0.45	0.22	31.18	0.02	0.01	0.19	----
C24	6.49	58.24	0.56	0.40	29.62	0.01	0.01	0.38	----
C27	6.54	59.70	0.56	0.48	27.09	0.04	0.19	0.26	----
C33	5.46	43.44	0.44	0.45	25.44	0.01	0.06	0.38	----
C28	5.96	52.48	0.47	0.93	26.22	0.04	0.23	0.66	1.36
C31	6.38	58.71	0.38	0.32	30.79	0.01	0.01	0.30	----
C32	6.49	59.71	0.55	0.33	29.80	0.02	0.03	0.28	----
C35	6.65	60.88	0.63	0.64	25.18	0.01	0.04	0.59	----
C36	6.32	58.82	0.49	0.32	30.99	0.03	0.01	0.28	----
C37	6.48	60.43	0.55	0.41	28.42	0.02	0.03	0.36	----
C38	6.35	59.11	0.44	0.23	31.76	0.03	0.01	0.19	----
C39	6.39	59.50	0.51	0.22	30.94	0.02	0.01	0.19	----
C40	6.59	61.36	0.60	0.32	27.11	0.01	0.02	0.29	----
C41	6.79	60.44	0.58	0.38	27.59	0.02	0.02	0.34	----
C42	6.57	59.50	0.56	0.27	29.96	0.03	0.01	0.23	----
C43	6.58	58.92	0.54	0.23	30.77	0.02	0.02	0.20	1.27

Core Hole 32. Analyses for samples from the Lance Oil and Gas Company, Inc., Whiskey Draw Unit 12-12-4778 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
34	1,518.0	1,520.0	Big George	7.46	12.62	19.14	----	2.64	----	----	----	----	----
32	1,520.0	1,522.0	Big George	5.85	13.21	18.29	16.17	2.94	33.84	44.93	10,470	10,810	SubA
31	1,522.0	1,524.0	Big George	6.58	10.61	16.49	----	4.27	----	----	----	----	----
30	1,524.0	1,526.0	Big George	6.37	14.68	20.11	----	1.74	----	----	----	----	----
35	1,534.0	1,536.0	Big George	8.21	11.73	18.98	----	3.66	----	----	----	----	----
36	1,536.0	1,538.0	Big George	5.64	12.53	17.46	----	2.33	----	----	----	----	----
37	1,538.4	1,540.4	Big George	7.12	11.10	17.43	17.11	2.09	35.18	45.30	10,950	11,200	SubA
38	1,540.4	1,542.4	Big George	5.08	13.52	17.91	----	1.95	----	----	----	----	----
39	1,542.4	1,544.4	Big George	6.21	13.20	18.59	----	4.03	----	----	----	----	----
40	1,544.4	1,546.4	Big George	7.47	12.13	18.69	----	2.28	----	----	----	----	----
41	1,546.4	1,548.4	Big George	8.12	11.30	18.50	16.82	2.77	32.68	46.05	10,480	10,800	SubA
42	1,548.4	1,550.4	Big George	7.02	11.58	17.79	----	3.71	----	----	----	----	----
43	1,550.4	1,552.4	Big George	8.45	10.73	18.27	----	2.02	----	----	----	----	----
44	1,554.0	1,556.0	Big George	6.86	10.90	17.01	----	5.53	----	----	----	----	----
45	1,556.0	1,558.0	Big George	8.13	9.38	16.75	----	2.37	----	----	----	----	----
46	1,558.0	1,560.0	Big George	7.32	10.95	17.47	----	3.19	----	----	----	----	----
47	1,560.0	1,562.0	Big George	7.64	9.29	16.22	15.94	10.53	34.38	38.87	9,880	11,150	SubA

Core Hole 32. Analyses for samples from the Lance Oil and Gas Company, Inc., Whiskey Draw Unit 12-12-4778 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
34	6.06	61.78	0.84	0.22	28.46	----	----	----	----
32	6.21	61.32	0.93	0.18	28.42	----	----	----	1.34
31	6.30	62.65	1.01	0.20	25.57	----	----	----	----
30	6.33	62.62	1.02	0.15	28.14	----	----	----	----
35	6.12	61.49	1.06	0.09	27.58	----	----	----	----
36	6.41	62.57	0.97	0.93	26.79	----	----	----	----
37	6.47	62.73	0.99	0.08	27.64	----	----	----	1.33
38	6.48	62.99	1.05	0.09	27.44	----	----	----	----
39	6.27	60.66	0.97	0.11	27.96	----	----	----	----
40	6.26	62.00	1.01	0.08	28.37	----	----	----	----
41	6.12	61.43	1.06	0.07	28.55	----	----	----	1.30
42	6.02	60.07	1.03	0.06	29.11	----	----	----	----
43	6.36	61.96	1.16	0.12	28.38	----	----	----	----
44	6.07	60.09	1.14	0.14	27.03	----	----	----	----
45	6.40	62.64	1.20	0.18	27.21	----	----	----	----
46	6.48	62.14	1.27	0.31	26.61	----	----	----	----
47	6.03	55.74	1.29	0.47	25.94	----	----	----	1.36

Core Hole 33. Analyses for samples from the Lance Oil and Gas Company, Inc., McBeth 12-30-4673-BG [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubB, subbituminous B coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D2	950.0	952.0	Big George	12.74	14.81	25.66	----	4.17	----	----	----	----	----
D3	952.0	954.0	Big George	13.27	12.77	24.35	23.78	4.68	34.17	36.8	9,110	9,600	SubB
D9	954.0	956.0	Big George	11.90	13.87	24.12	----	4.57	----	----	----	----	----
D10	956.0	958.0	Big George	14.13	12.20	24.61	24.92	3.65	34.37	37.37	9,190	9,570	SubB
D13	958.0	960.0	Big George	13.78	13.95	25.81	----	3.32	----	----	----	----	----
D19	960.0	962.0	Big George	11.95	14.04	24.31	23.22	5.30	34.63	35.76	9,110	9,660	SubB
D20	962.0	964.0	Big George	14.10	12.63	24.95	----	3.88	----	----	----	----	----
D21	964.0	966.0	Big George	11.46	15.04	24.78	----	4.58	----	----	----	----	----
D27	967.0	969.0	Big George	13.52	12.30	24.16	23.40	4.05	33.84	37.95	9,300	9,720	SubB
D30	969.0	971.0	Big George	12.73	13.98	24.93	----	3.99	----	----	----	----	----

Core Hole 33. Analyses for samples from the Lance Oil and Gas Company, Inc., McBeth 12-30-4673-BG
core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D2	6.73	52.76	0.67	0.38	35.29	----	----	----	----
D3	6.75	53.11	0.72	0.28	34.46	----	----	----	1.28
D9	6.69	52.63	0.72	0.16	35.23	----	----	----	----
D10	6.79	53.31	0.70	0.14	35.41	----	----	----	1.27
D13	6.66	52.64	0.72	0.13	36.53	----	----	----	----
D19	6.70	53.14	0.76	0.40	33.70	----	----	----	1.29
D20	6.56	53.33	0.60	0.16	35.47	----	----	----	----
D21	6.58	52.60	0.65	0.13	35.46	----	----	----	----
D27	6.72	54.07	0.64	0.13	34.39	----	----	----	1.33
D30	6.73	53.37	0.63	0.15	35.13	----	----	----	----

Core Hole 34. Analyses for samples from the Williams Production RMT Company, State 23-16-4171 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
48	328.0	330.0	Anderson	6.57	19.96	25.22	----	3.91	----	----	----	----	----
49	330.0	332.0	Anderson	10.09	19.11	27.27	26.54	4.26	31.01	37.46	8,820	9,250	SubC
50	332.0	334.0	Anderson	5.97	18.26	23.14	----	6.80	----	----	----	----	----
51	334.0	336.0	Anderson	8.91	18.03	25.33	----	3.15	----	----	----	----	----
52	336.0	338.0	Anderson	6.59	19.35	24.66	----	3.27	----	----	----	----	----
53	338.0	340.0	Anderson	8.12	19.44	25.98	----	3.29	----	----	----	----	----
54	340.0	342.0	Anderson	11.94	16.60	26.56	----	2.58	----	----	----	----	----
55	342.0	344.0	Anderson	6.33	18.98	24.11	23.86	3.39	34.7	37.8	9,360	9,720	SubB
56	344.0	346.0	Anderson	11.50	14.69	24.50	----	3.10	----	----	----	----	----
57	346.0	348.0	Anderson	8.56	17.21	24.30	----	4.51	----	----	----	----	----
58	348.0	350.0	Anderson	7.46	17.92	24.04	----	4.79	----	----	----	----	----
59	350.0	352.0	Anderson	11.12	16.57	25.85	----	4.03	----	----	----	----	----
61	352.0	354.0	Anderson	7.75	18.12	24.47	----	3.91	----	----	----	----	----
62	354.0	356.0	Anderson	12.12	14.84	25.16	----	3.36	----	----	----	----	----
63	356.0	358.0	Anderson	11.13	17.46	26.65	25.66	3.90	30.88	38.57	8,840	9,220	SubC
8	358.0	360.0	Anderson	4.83	20.70	24.53	----	5.38	----	----	----	----	----
7	360.0	361.8	Anderson	4.27	19.49	22.93	----	15.87	----	----	----	----	----
6	507.5	508.5	Canyon	3.72	24.18	27.00	----	2.46	----	----	----	----	----
5	508.5	510.5	Canyon	5.16	22.75	26.74	----	2.87	----	----	----	----	----
4	510.5	512.5	Canyon	4.13	23.96	27.10	----	3.32	----	----	----	----	----
3	512.5	514.5	Canyon	4.63	23.50	27.04	----	3.13	----	----	----	----	----
2	514.5	516.5	Canyon	6.92	19.10	24.70	----	3.31	----	----	----	----	----
71	516.5	518.5	Canyon	4.11	23.87	27.00	----	3.97	----	----	----	----	----
70	518.5	520.5	Canyon	7.65	22.59	28.51	----	4.20	----	----	----	----	----
69	520.5	522.5	Canyon	4.80	22.93	26.63	24.48	3.45	30.01	39.91	9,110	9,460	SubC
68	522.5	524.5	Canyon	6.21	20.65	25.58	----	3.21	----	----	----	----	----
67	524.5	526.5	Canyon	9.19	18.97	26.42	----	2.55	----	----	----	----	----
66	526.5	528.5	Canyon	5.68	22.37	26.78	----	3.83	----	----	----	----	----
65	528.5	530.5	Canyon	8.31	17.34	24.21	----	6.46	----	----	----	----	----
64	530.5	532.5	Canyon	6.32	19.25	24.35	24.04	5.48	31.92	38.25	9,080	9,650	SubB

Core Hole 34. Analyses for samples from the Williams Production RMT Company, State 23-16-4171 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
48	6.29	53.63	0.70	0.22	35.25	----	----	----	----
49	6.85	51.03	0.66	0.21	36.99	0.01	0.02	0.18	----
50	6.34	52.32	0.71	0.25	33.58	----	----	----	----
51	6.40	53.12	0.75	0.16	36.42	----	----	----	----
52	6.54	53.31	0.73	0.15	36.00	----	----	----	----
53	6.49	52.19	0.68	0.12	37.23	----	----	----	----
54	6.52	52.62	0.56	0.12	37.60	----	----	----	----
55	6.80	54.06	0.72	0.14	34.89	0.01	0.01	0.12	----
56	6.46	53.74	0.65	0.13	35.92	----	----	----	----
57	6.30	53.17	0.67	0.19	35.16	----	----	----	----
58	6.28	52.67	0.74	0.24	35.28	----	----	----	----
59	6.43	51.96	0.67	0.27	36.64	----	----	----	----
61	6.41	50.68	0.63	0.25	38.12	----	----	----	----
62	6.22	52.72	0.66	0.23	36.81	----	----	----	----
63	6.70	51.03	0.69	0.24	37.44	0.02	0.01	0.21	----
8	6.22	52.39	0.79	0.31	34.91	----	----	----	----
7	5.84	44.96	0.76	0.42	32.15	----	----	----	----
6	6.55	53.42	0.71	0.15	36.71	----	----	----	----
5	6.28	53.57	0.70	0.09	36.49	----	----	----	----
4	6.32	53.02	0.76	0.08	36.50	----	----	----	----
3	6.55	52.54	0.77	0.10	36.91	----	----	----	----
2	6.47	54.29	0.77	0.13	35.03	----	----	----	----
71	6.55	51.97	0.70	0.11	36.70	----	----	----	----
70	6.63	50.97	0.73	0.14	37.33	----	----	----	----
69	6.38	53.52	0.79	0.08	35.78	0.02	0.00	0.06	----
68	6.40	54.13	0.83	0.09	35.34	----	----	----	----
67	6.43	53.15	0.70	0.13	37.04	----	----	----	----
66	6.54	51.69	0.78	0.16	37.00	----	----	----	----
65	6.42	51.69	0.79	0.20	34.44	----	----	----	----
64	6.33	52.65	0.79	0.28	34.47	0.02	0.00	0.26	----

Core Hole 35. Analyses for samples from the Williams Production Company, Groves 12-19-4574 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubC, subbituminous C coal; SubB, subbituminous B coal . Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D1	1,197.0	1,199.0	Big George	7.85	19.96	26.24	----	3.93	----	----	----	----	----
D2	1,199.0	1,201.0	Big George	4.59	23.35	26.87	----	4.13	----	----	----	----	----
D3	1,201.0	1,203.0	Big George	7.40	21.79	27.58	----	4.20	----	----	----	----	----
D5	1,203.0	1,205.0	Big George	5.24	24.01	27.99	----	3.50	----	----	----	----	----
D6	1,205.0	1,207.0	Big George	6.01	23.76	28.34	----	2.46	----	----	----	----	----
D7	1,225.0	1,227.0	Big George	8.87	20.17	27.25	26.39	3.23	31.96	37.56	8,810	9,360	SubC
D8	1,227.0	1,229.0	Big George	5.44	19.83	24.19	----	4.23	----	----	----	----	----
D9	1,229.0	1,231.0	Big George	7.77	18.31	24.66	----	3.82	----	----	----	----	----
D10	1,231.0	1,233.0	Big George	7.24	19.12	24.98	----	3.57	----	----	----	----	----
D11	1,233.0	1,235.0	Big George	6.78	19.60	25.05	----	2.97	----	----	----	----	----
D12	1,235.0	1,237.0	Big George	8.96	18.31	25.63	----	3.90	----	----	----	----	----
D13	1,237.0	1,239.0	Big George	6.75	19.65	25.07	24.66	2.88	33.45	38.6	9,200	9,700	SubB
D14	1,239.0	1,241.0	Big George	9.07	16.64	24.20	----	3.05	----	----	----	----	----
D15	1,241.0	1,243.0	Big George	6.27	19.07	24.14	----	4.47	----	----	----	----	----
D17	1,243.0	1,245.0	Big George	7.47	20.01	25.99	----	4.61	----	----	----	----	----
D18	1,246.5	1,248.5	Big George	7.48	18.92	24.98	----	3.47	----	----	----	----	----
D19	1,248.5	1,250.5	Big George	10.49	15.69	24.53	----	2.87	----	----	----	----	----
D20	1,250.5	1,252.5	Big George	7.82	17.32	23.79	23.27	3.35	35.19	37.67	9,440	10,040	SubB
D21	1,252.5	1,254.5	Big George	12.18	14.89	25.26	----	3.12	----	----	----	----	----
D22	1,254.5	1,256.5	Big George	7.49	18.02	24.16	----	5.28	----	----	----	----	----

Core Hole 35. Analyses for samples from the Williams Production Company, Groves 12-19-4574 core hole--
Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D1	6.44	51.89	0.63	0.38	36.73	----	----	----	----
D2	6.32	51.35	0.56	0.30	37.34	----	----	----	----
D3	6.65	50.87	0.57	0.26	37.45	----	----	----	----
D5	6.62	51.11	0.55	0.21	38.01	----	----	----	----
D6	6.58	50.98	0.48	0.18	39.32	----	----	----	----
D7	6.57	51.36	0.46	0.16	38.22	----	----	----	1.26
D8	6.44	53.24	0.51	0.18	35.40	----	----	----	----
D9	6.48	53.07	0.49	0.17	35.97	----	----	----	----
D10	6.44	53.08	0.52	0.16	36.23	----	----	----	----
D11	6.47	53.35	0.52	0.10	36.59	----	----	----	----
D12	6.44	52.32	0.47	0.12	36.75	----	----	----	----
D13	6.47	54.42	0.63	0.14	35.46	----	----	----	1.29
D14	6.46	54.27	0.46	0.12	35.64	----	----	----	----
D15	6.43	52.80	0.45	0.22	35.63	----	----	----	----
D17	6.50	51.81	0.54	0.28	36.26	----	----	----	----
D18	6.40	53.07	0.49	0.15	36.42	----	----	----	----
D19	6.39	53.89	0.49	0.29	36.07	----	----	----	----
D20	6.64	55.02	1.07	0.20	33.72	----	----	----	1.32
D21	6.35	53.16	0.55	0.15	36.67	----	----	----	----
D22	6.56	53.11	0.61	0.22	34.22	----	----	----	----

Core Hole 36. Analyses for samples from the Peabody Natural Gas, LLC., PNG 24-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D23	1,256.7	1,258.2	Pawnee	5.15	17.91	22.14	----	8.74	----	----	----	----	----
D24	1,258.2	1,259.2	Pawnee	6.45	18.03	23.32	----	3.66	----	----	----	----	----
D25	1,272.1	1,275.0	Pawnee	5.24	19.27	23.50	----	4.03	----	----	----	----	----
D26	1,275.2	1,276.2	Pawnee	4.18	15.56	19.09	34.07	7.93	34.22	38.76	10,030	10,970	SubA

Core Hole 36. Analyses for samples from the Peabody Natural Gas, LLC., PNG 24-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D23	5.73	53.64	0.97	0.50	30.42	----	----	----	----
D24	6.36	55.87	1.02	0.32	32.77	----	----	----	----
D25	5.89	55.92	0.98	0.10	33.08	----	----	----	----
D26	6.31	56.57	0.99	0.78	27.42	0.01	0.66	0.11	1.34

Core Hole 37. Analyses for samples from the Peabody Natural Gas, LLC., PNG 26-1 core hole [----, not analyzed; Btu, British thermal units per pound; g/cc, grams per cubic centimeter; SubA, subbituminous A coal. Values reported on an as-received basis]

Sample number	Depth, in feet		Bed name	Moisture, in percent				Proximate analysis, in percent			Calorific value, in Btu	Moist, mineral-matter-free Btu	Apparent rank
	From	To		Residual	Air dry loss	Total	Equilibrium	Ash yield	Volatile matter	Fixed carbon			
D28	1,156.0	1,158.0	Pawnee	4.91	16.83	20.91	----	7.49	----	----	----	----	----
D27	1,158.0	1,160.0	Pawnee	6.68	16.33	21.92	----	6.48	----	----	----	----	----
D29	1,160.0	1,162.0	Pawnee	6.99	16.32	22.17	----	3.77	----	----	----	----	----
D30	1,166.1	1,167.0	Pawnee	4.21	15.46	21.56	----	7.98	----	----	----	----	----
D33	1,170.0	1,172.0	Pawnee	5.26	18.35	22.64	----	4.00	----	----	----	----	----
D32	1,172.0	1,174.0	Pawnee	7.28	15.01	21.00	20.91	5.24	31.74	41.82	9,740	10,320	Sub A
D31	1,174.0	1,176.0	Pawnee	5.94	16.03	21.02	----	4.12	----	----	----	----	----

Core Hole 37. Analyses for samples from the Peabody Natural Gas, LLC., PNG 26-1 core hole--Continued

Sample number	Ultimate analysis, in percent					Forms of sulfur, in percent			Apparent specific gravity, in g/cc
	Hydrogen	Carbon	Nitrogen	Sulfur	Oxygen	Sulfate	Pyritic	Organic	
D28	5.74	55.49	0.96	0.45	30.17	----	----	----	----
D27	5.87	55.15	0.98	0.24	31.28	----	----	----	----
D29	6.45	56.67	0.98	0.17	31.96	----	----	----	----
D30	5.97	53.49	0.91	0.14	31.51	----	----	----	----
D33	6.09	56.21	0.99	0.13	32.58	----	----	----	----
D32	5.82	57.26	0.97	0.11	30.60	0.02	0.01	0.08	1.34
D31	5.94	57.74	0.98	0.12	31.10	----	----	----	----