

Table 1.--Selected analyses of coal from localities in Powder River County, Montana

[Made at the Pittsburgh laboratory of the U.S. Bureau of Mines]

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
OPEN FILE REPORT 1966

Name and location of mine or prospect	Classification of coal <sup>1/</sup>			U.S. Bur. Mines Lab. sample no. and date of sampling	% Loss on air drying	Form of analysis <sup>3/</sup>	Analysis									Heating value (Btu)
	Rank	FC	Btu <sup>2/</sup>				Proximate			Ultimate						
							M <sup>4/</sup>	V <sup>5/</sup>	FO <sup>6/</sup>	Ash	S	H	C	N	O	
Lower part of Tongue River Member of Fort Union Formation																
Drill hole C-3 USBR Moorhead Dam Project, sec. 19, T. 9 S., R. 48 E.	Subbit. C	55.3	8,940	C-92753 1948	15.1	A	27.9	29.6	35.6	6.9	0.6	6.4	43.5	0.9	36.7	8,280
						B	15.1	34.8	42.0	8.1	.7	5.5	57.1	1.1	27.5	9,750
						C		41.1	49.4	9.5	.8	4.5	67.3	1.2	16.7	11,490
						D		45.4	54.6		.9	5.0	74.4	1.4	18.3	12,700
	Subbit. C	54.3	9,180	C-92754 1948	20.2	A	27.9	31.0	36.0	5.1	1.0	6.6	49.9	0.9	36.5	8,680
						B	9.7	38.9	45.0	6.4	1.2	5.5	62.5	1.2	23.2	10,870
						C		43.0	50.0	7.0	1.4	4.8	69.2	1.3	16.3	12,030
						D		46.3	53.7		1.5	5.2	74.4	1.4	17.5	12,940
Drill hole F-5 USBR Moorhead Dam Project, sec. 18, T. 9 S., R. 48 E.	Subbit. C	56.5	9,040	C-92479 1948	13.4	A	28.3	29.6	37.8	4.3	0.5	6.4	50.3	0.9	37.6	8,620
						B	17.2	34.2	43.6	5.0	.5	5.7	58.1	1.1	29.6	9,950
						C		41.3	52.7	6.0	.6	4.5	70.2	1.3	17.4	12,020
						D		43.9	56.1		.7	4.3	74.7	1.4	18.4	12,790
	Subbit. C	54.8	9,020	C-92480 1948	20.0	A	28.2	30.7	36.6	4.5	0.8	6.6	49.8	0.9	37.4	8,590
						B	10.3	38.3	45.7	5.7	1.0	5.5	62.2	1.2	24.4	10,740
						C		42.7	51.0	6.3	1.1	4.8	69.4	1.3	17.1	11,970
						D		45.6	54.4		1.2	5.1	74.1	1.4	18.2	12,780
Drill hole C-9 USBR Moorhead Dam Project, sec. 18, T. 9 S., R. 48 E.	Subbit. C	55.5	9,100	C-91743 1948	16.0	A	27.2	30.2	36.8	5.8	0.6	6.4	49.7	1.0	36.5	8,530
						B	13.3	36.0	43.8	6.9	.7	5.5	59.2	1.2	26.5	10,160
						C		41.6	50.4	8.0	.8	4.6	68.3	1.3	17.0	11,720
						D		45.2	54.8		.8	5.0	74.2	1.5	18.5	12,740
	Subbit. C	57.1	8,800	C-91744 1948	22.8	A	30.4	28.3	37.0	4.3	0.9	6.7	48.8	0.8	38.5	8,390
						B	9.9	36.7	47.8	5.6	1.1	5.4	63.2	1.1	23.6	10,870
						C		40.7	53.1	6.2	1.2	4.7	70.1	1.2	16.6	12,060
						D		43.4	56.6		1.3	5.1	74.7	1.3	17.6	12,850
Broadus bed in lower part of Tongue River Member of Fort Union Formation																
Superior mine, sec. 14, T. 5 S., R. 50 E. (north of mapped area)	Lignite A	53.7	7,790	C-75920 (3) 1947	20.2	A	33.5	28.3	32.2	6.0	0.4	6.5	43.5	0.8	42.8	7,290
						B	16.6	35.4	40.5	7.5	.5	5.4	54.5	1.0	31.1	9,140
						C		42.5	48.5	9.0	.6	4.2	65.4	1.1	19.7	10,970
						D		46.7	53.3		.6	4.7	71.9	1.3	21.5	12,050
Black Diamond mine, sec. 11, T. 5 S., R. 50 E. (north of mapped area)	Lignite A	51.8	7,940	C-75726 (3) 1947	21.0	A	32.3	29.8	31.4	6.5	0.3	6.7	43.6	0.7	42.2	7,380
						B	14.3	37.8	39.7	8.2	.3	5.5	55.2	.9	29.9	9,340
						C		44.0	46.4	9.0	.4	4.5	64.4	1.0	20.1	10,900
						D		48.7	51.3		.4	5.0	71.2	1.1	22.3	12,050
Peerless mine, sec. 23, T. 4 S., R. 50 E. (north of mapped area)	Lignite A	56.3	7,680	B-29377 1938	26.8	A	34.6	26.4	33.4	5.6	0.2	6.7	43.5	0.7	43.3	7,220
						B	10.7	36.1	45.6	7.6	.3	5.1	59.5	.9	26.6	9,870
						C		40.4	51.1	8.5	.4	4.4	66.6	1.0	19.1	11,040
						D		44.2	55.8		.4	4.8	72.8	1.1	20.9	12,070
Two Trees mine, sec. 15, T. 4 S., R. 48 E. (north of mapped area)	Subbit. C	51.6	9,210	F-51048 1957	6.0	A	19.5	35.8	37.5	7.2	0.3	5.7	51.3	1.0	34.5	8,490
						B	14.4	38.0	40.0	7.6	.3	5.3	54.6	1.0	31.2	
						C		44.4	46.7	8.9	.3	4.3	63.8	1.2	21.5	10,540
						D		48.7	51.3		.4	4.8	70.0	1.3	23.5	11,570

1/ In accordance with American Society for Testing Materials, Tentative Specifications for Classification of coals by rank (ASTM Designation: D-300, issued 1964).

2/ Calculated on the moist, mineral-matter-free basis

3/ A, as received; B, air-dried; C, moisture-free; D, moisture- and ash-free

4/ Moisture

5/ Volatile matter

6/ Fixed carbon

Montana (Moorhead coal field) coal 1:63,360 1966.  
Table 1, in 13 sheets, under binder.  
cop. 1.

This report and/or map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

M(200)  
R290  
no. 66-11  
Table 1  
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