

Table 1.

Analyses of high-volatile bituminous coal from beds in mines and drill holes on Moose Creek, lower Matanuska Valley coal field, Alaska.

(Samples taken by U.S. Bureau of Mines, 1942-43. Proximate analyses by M. L. Sharp, Chief Coal Sampler and Analyst, Alaska Railroad, Anchorage, Alaska. Ultimate analyses by Central Experiment Station, Bureau of Mines, Pittsburgh, Pa.)

46041

Mine or diamond-drill hole	Bed sampled	Location of sample in mine or footage in drill hole	Core recovery in percent.	Air-drying loss, percent.	Form of analysis	Proximate, percent						Ultimate, percent						Laboratory number (Pittsburgh laboratory numbers prefixed by letter B; others are Anchorage laboratory numbers)	Character of bed sampled (from hanging wall to foot-wall). C-coal, BC-bony coal, B-bone, M-marker bed. Underlining of unit denotes exclusion from sample and analysis.
						Moisture.	Volatile matter.	Fixed carbon.	Ash.	Sulphur.	Hydrogen.	Carbon.	Nitrogen.	Oxygen.	Calorific value, B.t.u.	Ash-softening temperature, °F.			
																	A		
Buffalo mine	1 bed	South face of no. 1 gangway 65' from main entry	---	1.5	A B C D	5.1 3.7 - -	36.7 37.2 38.7 44.4	45.9 46.6 48.3 55.6	12.3 12.5 13.0 -	0.5 0.5 0.5 0.5	5.2 5.1 4.9 5.6	65.5 66.5 69.0 79.4	1.3 1.3 1.3 1.5	15.2 14.1 11.3 13.0	11,670 11,850 12,300 14,140	2,800	B-98926	C 6", M 1 1/2", C 2' 0", M 2", C 2", M 2", C 1' 5", M 2", C 7", BC 1' 1"	
	2 bed	In shaft, 92' feet below no. 2 gangway, 210' SW of main entry	---	0.9	A B C D	3.9 3.0 - -	40.0 40.3 41.6 44.5	49.7 50.3 51.8 55.5	6.4 6.4 6.6 -	0.2 0.3 0.3 0.3	5.6 5.5 5.4 5.8	72.2 72.9 75.2 80.5	1.3 1.3 1.3 1.4	14.3 13.5 11.2 12.0	12,920 13,030 13,440 14,390	2,660	B-98928	B 2' 0", C 6' 8"	
	2 bed	Six feet from north face of no. 2 gangway about 850' NE of main entry adit.	---	1.6	A B C D	4.7 3.1 - -	39.8 40.5 41.8 44.9	48.8 49.6 51.1 55.1	6.7 6.8 7.1 -	0.4 0.4 0.4 0.4	5.6 5.5 5.3 5.8	70.9 72.0 74.3 80.0	1.2 1.2 1.3 1.4	15.2 14.1 11.6 12.4	12,670 12,870 13,280 14,290	2,800	B-98927	BC 1' 2", C 4' 4", B 6"	
	3 bed	North face of no. 3 gangway 185' from main entry adit.	---	1.4	A B C D	4.6 3.2 - -	40.0 40.6 41.9 44.0	51.0 51.7 53.5 56.0	4.4 4.5 4.6 -	0.4 0.4 0.4 0.4	5.7 5.7 5.8 5.7	73.0 74.1 76.6 80.3	1.2 1.3 1.3 1.4	15.3 14.0 11.6 12.2	13,070 13,260 13,700 14,370	2,710	B-98929	C 2' 5"	
	4 bed	North wall of main entry adit at intersection with no. 4 bed.	---	1.7	A B C D	4.8 3.1 - -	39.0 39.7 41.0 43.5	50.6 51.5 53.2 56.5	5.6 5.7 5.8 -	0.3 0.3 0.3 0.4	5.6 5.5 5.3 5.7	71.9 73.2 75.5 80.2	1.1 1.1 1.1 1.2	15.5 14.2 12.0 12.5	12,860 13,080 13,510 14,340	2,340	B-98931	C 2' 10"	
	5 bed (upper bench)	North wall of main entry adit at intersection with no. 5 bed	---	1.3	A B C D	4.2 3.0 - -	38.6 39.1 40.2 43.5	49.9 50.5 52.2 56.5	7.3 7.4 7.6 -	0.3 0.3 0.3 0.3	5.5 5.4 5.3 5.7	71.0 71.9 74.1 80.2	1.2 1.2 1.2 1.3	14.7 13.8 11.5 12.5	12,690 12,850 13,240 14,320	2,780	B-98933	C 2' 2", M 10"	
	5 bed (lower bench)		---	1.5	A B C D	4.3 2.9 - -	37.0 37.6 38.7 45.3	44.8 45.4 46.7 54.7	13.9 14.1 14.6 -	0.3 0.3 0.3 0.3	5.2 5.1 4.9 5.8	64.7 65.7 67.6 79.1	1.0 1.1 1.1 1.3	14.9 13.7 11.5 13.5	11,540 11,710 12,060 14,120	2,780	B-98932	C 1' 8", M 1", C 1' 8"	
6 bed	North wall of "badger-hole" extension of main entry adit at intersection with no. 6 bed.	---	1.5	A B C D	3.9 2.4 - -	30.7 31.2 31.9 49.4	51.4 51.9 52.4 50.6	34.0 34.5 35.4 -	0.3 0.3 0.3 0.5	4.2 4.1 3.9 6.1	47.3 48.1 49.3 76.2	0.9 0.9 0.9 1.4	13.3 12.1 10.2 15.8	8,420 8,560 8,770 13,564	2,910	B-98935	BC 4' 6"		
7 bed (upper bench)	North wall of "badger-hole" extension of main entry adit at intersection with no. 7 bed.	---	0.7	A B C D	3.2 2.5 - -	34.0 34.3 35.1 48.9	55.6 55.8 58.1 -	27.2 27.4 28.1 -	0.2 0.3 0.4 0.4	4.7 4.7 4.5 6.2	54.2 54.6 56.0 77.9	1.1 1.1 1.1 1.6	12.6 11.9 10.0 13.9	9,760 9,830 10,080 14,020	2,910 + (start)	B-98937	C 1' 6", M 5"		
7 bed (lower bench)		---	1.1	A B C D	3.8 2.8 - -	39.9 40.4 41.5 47.7	43.9 44.2 45.6 52.3	12.4 12.6 12.9 -	0.3 0.3 0.3 0.4	5.5 5.4 5.3 6.0	66.4 67.1 69.1 79.3	1.3 1.3 1.3 1.5	14.1 13.3 11.1 12.8	11,940 12,070 12,440 14,260	2,910+ (start)	B-98936	C 1' 10"		
Premier mine.	1 bed	Southwest face of short drift on second level.	---	1.4	A B C D	3.3 1.9 - -	42.2 42.8 43.6 48.6	45.4 46.2 51.4 -	9.8 9.9 10.2 10.2	0.4 0.4 0.4 0.5	- - - -	- - - -	- - - -	- - - -	12,355 12,530 12,775 14,220	---	9991	B 6", C 1' 2", M 7", C 2' 8"	
	2 bed	Intersection of bed with south wall of crosscut off no. 2 gangway, second level.	---	1.8	A B C D	3.5 1.7 - -	40.3 41.1 41.7 46.7	45.9 46.6 47.6 53.3	10.3 10.5 10.7 10.7	0.3 0.3 0.3 0.3	- - - -	- - - -	- - - -	- - - -	12,335 12,560 12,780 14,310	---	9992	B 1' 0", C 1' 9", M 10", C 11", M 1", C 7", B 2' 6"	
	2 1/2 bed	Intersection of bed with south wall of crosscut off no. 3 gangway, second level.	---	2.2	A B C D	4.2 2.0 - -	42.9 43.9 44.8 47.9	46.7 47.8 48.7 52.1	6.2 6.3 6.5 -	0.3 0.3 0.3 0.3	- - - -	- - - -	- - - -	- - - -	12,515 12,795 13,065 13,965	---	9994	C 3' 3"	
	2 1/2 bed	Upper level; face of short drift 10' south of main entry.	---	1.8	A B C D	3.3 1.5 - -	44.6 45.4 46.1 48.9	46.6 47.5 48.2 51.1	5.5 5.6 5.7 5.7	0.3 0.3 0.3 0.3	- - - -	- - - -	- - - -	- - - -	12,875 13,110 13,310 14,110	---	9702	C 9", M 1", C 1' 3"	
	3 bed	Across back of gangway 10' south of main entry.	---	1.8	A B C D	3.5 1.7 - -	41.1 41.9 42.6 45.8	48.7 49.6 50.5 54.2	6.7 6.8 6.9 6.9	0.4 0.4 0.4 0.4	- - - -	- - - -	- - - -	- - - -	12,830 13,065 13,290 14,290	---	9703	B 11", M 1", C 7", M 10", C 1' 9", M 2", C 7", M 2", C 8", M 1", C 1' 11"	
	4 bed	Face of bed in gangway 75' south of main entry	---	1.8	A B C D	3.5 1.7 - -	40.2 40.9 41.7 44.3	50.6 51.6 52.4 55.7	5.7 5.8 5.7 5.7	0.4 0.4 0.4 0.4	- - - -	- - - -	- - - -	- - - -	13,025 13,265 13,495 14,340	---	9704	C 2' 2"	
	4 1/2 bed	Across roof of gangway 60' south of main entry	---	1.6	A B C D	3.4 1.8 - -	41.4 42.1 42.8 44.9	50.8 51.6 52.6 55.1	4.4 4.5 4.6 -	0.4 0.4 0.4 0.4	- - - -	- - - -	- - - -	- - - -	13,190 13,405 13,650 14,310	---	9705	C 2' 1"	
	5 bed	Across roof of gangway 45' north of main entry	---	2.2	A B C D	3.9 1.7 - -	39.4 40.3 41.0 45.6	47.1 48.2 49.0 54.4	9.6 9.8 10.0 -	0.4 0.4 0.5 0.5	- - - -	- - - -	- - - -	- - - -	12,365 12,645 12,870 14,295	---	9706	C 1' 9", B 4", C 5", M 9", C 2", M 1", C 6", M 2", C 3", M 2", BC 2"	
6 bed	Across back of bed along south wall of main entry.	---	1.6	A B C D	3.2 1.6 - -	38.2 38.8 39.5 46.9	43.3 44.0 44.7 53.1	15.3 15.6 15.8 -	0.3 0.3 0.3 0.3	- - - -	- - - -	- - - -	- - - -	11,630 11,820 12,015 14,270	---	9707	C 1' 5", M 3", BC 2", M 2", BC 8"		
Diamond-drill hole 4, near Buffalo mine	"Premier" coal group	94' 5" - 100' 6"	10.9	-	A B C D	1.8 - - -	41.2 41.9 48.6 -	43.5 44.3 51.4 -	13.5 13.8 13.8 -	0.3 0.3 0.4 -	- - - -	- - - -	- - - -	- - - -	12,030 - - - 12,245 14,205	---	9846	C 6' 1" Coal somewhat bony. Two 1" markers eliminated; position undetermined.	
		100' 9" - 106' 8"	27.0	-	A B C D	1.9 - - -	39.5 40.3 48.8 -	41.5 42.3 51.2 -	17.1 17.4 17.4 -	0.3 0.3 0.4 -	- - - -	- - - -	- - - -	- - - -	11,395 - - - 11,610 14,070	---	9847	C 3' 0", M 1", C 2' 11"	
		109' 11" - 112' 8"	26.0	-	A B C D	1.7 - - -	35.1 35.7 53.1 -	31.0 31.5 46.9 -	32.2 32.8 - -	0.3 0.3 0.5 -	- - - -	- - - -	- - - -	- - - -	8,675 - - - 8,915 13,260	---	9848	C & B 2' 9"	
		124' 8" - 132' 0"	25.2	-	A B C D	2.1 - - -	44.3 45.2 46.7 -	50.2 51.3 53.3 -	3.4 3.5 3.5 -	0.4 0.4 0.4 -	- - - -	- - - -	- - - -	- - - -	13,275 - - - 13,555 14,045	---	9849	C 7' 4"	
		151' 10" - 154' 0"	38.2	-	A B C D	2.1 - - -	43.8 44.7 46.5 -	50.4 51.5 53.5 -	3.7 3.8 3.8 -	0.4 0.4 0.4 -	- - - -	- - - -	- - - -	- - - -	13,250 - - - 13,540 14,080	---	9850	C 2' 2", B 1' 4"	
		157' 5" - 164' 8"	74.3	-	A B C D	1.7 - - -	43.4 44.2 47.6 -	47.8 48.6 52.4 -	7.1 7.2 7.2 -	0.3 0.3 0.3 -	- - - -	- - - -	- - - -	- - - -	12,870 - - - 13,090 14,105	---	9851	C 3' 8", M 2", C 3' 7"	
		172' 0" - 174' 0"	50.0	-	A B C D	2.0 - - -	41.7 42.5 46.8 -	47.4 48.4 53.2 -	8.9 9.1 9.1 -	0.3 0.3 0.3 -	- - - -	- - - -	- - - -	- - - -	12,395 - - - 12,640 13,905	---	9852	C 2' 0"	
		179' 7" - 183' 1"	66.0	-	A B C D	2.1 - - -	39.8 40.6 44.2 -	50.3 51.4 55.8 -	7.8 8.0 8.0 -	0.3 0.3 0.3 -	- - - -	- - - -	- - - -	- - - -	12,425 - - - 12,685 13,790	---	9853	C 3' 6"	
	1 bed (Buffalo mine)	254' 0" - 258' 11"	70.0	-	A B C D	2.3 - - -	41.1 42.0 45.8 -	48.7 49.9 54.2 -	7.9 8.1 8.1 -	0.3 0.3 0.3 -	- - - -	- - - -	- - - -	- - - -	12,615 - - - 12,915 14,055	---	9854	C 3' 6", M 1", C 1' 5", B 7"	
	Diamond-drill hole 1, near Buffalo mine.	Eaka coal group	542' 1" - 545' 7"	59.0	-	A B C D	2.0 - - -	35.8 36.6 49.4 -	36.6 37.3 50.6 -	25.6 26.1 26.1 -	0.3 0.3 0.4 -	- - - -	- - - -	- - - -	- - - -	9,895 - - - 10,095 13,665	---	9936	C 3' 6"
		562' 0" - 566' 11"	69.0	-	A B C D	1.7 - - -	31.7 32.2 49.5 -	32.4 33.0 50.5 -	34.2 34.8 34.8 -	0.3 0.3 0.5 -	- - - -	- - - -	- - - -	- - - -	8,510 - - - 8,655 13,275	---	9937	C 4' 11"	
		574' 5" - 579' 1"	77.0	-	A B C D	1.6 - - -	31.8 32.3 50.3 -	31.6 32.1 49.9 -	35.0 35.6 35.6 -	0.3 0.3 0.5 -	- - - -	- - - -	- - - -	- - - -	8,485 - - - 8,620 13,380	---	9938	C 4' 8"	
		597' 6" - 603' 0"	25.0	-	A B C D	2.6 - - -	39.7 40.8 44.1 -	50.4 51.7 55.9 -	7.3 7.5 7.5 -	0.5 0.5 0.5 -	- - - -	- - - -	- - - -	- - - -	12,630 - - - 12,970 14,020	---	9939	C 5' 6"	