

TABLE 1.--Analyses of surface samples from outcrops along the Kukpowruk River in T. 1 S., R. 44 W., Umiat principal meridian, Alaska.
 [Samples collected by A. A. Wanek, 1966. Form of analysis: A, as-received; B, moisture-free; C, moisture- and ash-free.]

Coal bed	Thick-ness (in.)	Location	Bureau Mines Lab.No.	Sample No.	Analyses, in percent											Heating value (Btu)	Free swelling index	Remarks
					Proximate				Ultimate									
					Form of analysis	Mois-ture	Volatile matter	Fixed carbon	Ash	Hydro-gen	Carbon	Nitro-gen	Oxygen	Sul-fur	Ash			
1	60	SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 28	I-59804	C-1	A	2.5	42.3	52.1	3.1	5.6	77.5	1.4	12.2	0.2	3.1	13,720	6	Lower 5 ft exposed, includes 1 $\frac{1}{2}$ in. clay in two partings.
					B	---	43.3	53.5	3.2	5.4	79.5	1.5	10.2	0.2	3.2	14,080		
					C	---	44.8	55.2	---	5.6	82.1	1.5	10.6	0.2	---	14,540		
1	60	--do--	I-59805	C-2	A	2.6	36.1	53.8	7.5	4.9	73.1	1.2	13.2	0.1	7.5	12,640	2 $\frac{1}{2}$	Middle 5 ft exposed.
					B	---	37.0	55.3	7.7	4.7	75.1	1.2	11.1	0.2	7.7	12,980		
					C	---	40.1	59.9	---	5.1	81.3	1.3	12.1	0.2	---	14,060		
1	60	--do--	I-59806	C-3	A	2.9	31.3	62.0	3.8	4.8	78.2	1.2	11.8	0.2	3.8	13,560	1 $\frac{1}{2}$	Upper 5 ft exposed, includes 1 in. bone.
					B	---	32.2	63.9	3.9	4.6	80.5	1.3	9.5	0.2	3.9	13,960		
					C	---	33.5	66.5	---	4.8	83.7	1.3	10.0	0.2	---	14,530		
4	48	NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 28	I-59807	C-4	A	2.7	35.4	51.3	10.6	5.1	71.3	1.3	11.4	0.3	10.6	12,690	1 $\frac{1}{2}$	Includes 2 in. clay parting, 4 in. bone.
					B	---	36.3	52.8	10.9	5.0	73.3	1.4	9.1	0.3	10.9	13,040		
					C	---	40.8	59.2	---	5.6	82.3	1.5	10.3	0.3	---	14,630		
5	35	SE $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 20	I-59808	C-5	A	4.4	32.6	53.1	9.0	5.0	70.4	1.2	13.1	0.4	9.9	12,300	$\frac{1}{2}$	Includes 2 in. clay parting.
					B	---	34.1	55.5	10.4	4.7	73.6	1.3	9.5	0.5	10.4	12,860		
					C	---	38.0	62.0	---	5.3	82.1	1.4	10.7	0.5	---	14,350		
6	43	--do--	I-59809	C-6	A	3.8	30.2	46.7	19.3	4.5	62.1	1.2	12.6	0.3	19.3	10,850	$\frac{1}{2}$	Upper part of 85.6-in. bed includes two 1 in. clay partings.
					B	---	31.4	48.6	20.0	4.3	64.6	1.2	9.6	0.3	20.0	11,280		
					C	---	39.2	60.8	---	5.3	80.7	1.5	12.2	0.3	---	14,110		
7	42	--do--	I-59810	C-7	A	5.9	32.1	51.0	11.0	5.0	67.3	1.2	15.1	0.4	11.0	11,750	$\frac{1}{2}$	-----
					B	---	34.1	54.2	11.7	4.6	71.5	1.3	10.5	0.4	11.7	12,490		
					C	---	38.6	61.4	---	5.2	81.0	1.5	11.9	0.4	---	14,140		
9	40	NE $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 17	I-59811	C-8	A	3.2	34.7	50.2	11.9	5.0	69.4	1.4	12.0	0.3	11.9	12,240	2	-----
					B	---	35.8	51.9	12.3	4.8	71.7	1.5	9.3	0.4	12.3	12,650		
					C	---	40.9	59.1	---	5.5	81.8	1.7	10.6	0.4	---	14,430		
9	63	SW $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 8	I-59812	C-9	A	4.9	36.2	56.0	2.9	5.4	75.4	1.6	14.4	0.3	2.9	13,220	2	-----
					B	---	38.0	59.0	3.0	5.1	79.3	1.6	10.7	0.3	3.0	13,910		
					C	---	39.2	60.8	---	5.2	81.8	1.7	11.0	0.3	---	14,340		
10	67	SE $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 8	I-59813	C-10	A	5.3	36.0	52.7	6.0	5.3	71.8	1.6	15.0	0.3	6.0	12,250	2	Includes 1 in. clay parting.
					B	---	38.0	55.7	6.3	5.0	75.7	1.7	10.9	0.3	6.3	13,220		
					C	---	40.5	59.5	---	5.3	80.8	1.8	11.7	0.4	---	14,110		
10	62	--do--	I-59814	C-11	A	6.2	35.2	54.6	4.0	5.3	72.1	1.5	16.7	0.4	4.0	12,460	0	Sampled downstream from above.
					B	---	37.5	58.2	4.3	4.9	76.9	1.6	11.9	0.4	4.3	13,280		
					C	---	39.2	60.8	---	5.2	80.3	1.7	12.4	0.4	---	13,880		
14	109	SE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 6	I-59815	C-12	A	5.8	28.9	45.7	19.6	4.5	58.5	1.0	16.1	0.3	19.6	10,160	0	Includes 2 in. silt parting.
					B	---	30.7	48.4	20.9	4.1	62.1	1.1	11.5	0.3	20.9	10,790		
					C	---	38.7	61.3	---	5.2	78.5	1.4	14.6	0.3	---	13,630		