

NOTED  
AUG 7 - 1945  
B. D. STEWART  
Commissioner of Mines

TABLE 1: SELECTED ANALYSES OF COAL FROM THE VALLEY OF THE HEALY RIVER, ALASKA

Sample 1/	Bed sampled	Location	Air dry loss, percent	Form of analysis 2/	Proximate percent			Ultimate percent				Calorific value B.T.U.	Ash softening temp. in degrees F.	Thickness of sample	Collector		
					Moisture	Volatile matter	Fixed carbon	Ash	Sulfur	Hydrogen	Carbon					Nitrogen	Oxygen
ARR-11012	C bed lower 14'	Suntrana mine	7.4	A	19.0	38.7	29.1	13.2	0.2				8565	14 1/2"	Pritchard & Garrett		
				B	12.5	41.8	31.4	14.3	0.2			9250					
				C		47.8	35.9	16.3	0.2			10575					
				D		57.1	42.9		0.3			12635					
ARR-11011	C bed upper 6'9"	Suntrana mine	7.4	A	20.5	39.7	31.1	8.7	0.3			9095	6'9"	Pritchard & Garrett			
				B	14.2	42.8	33.6	9.4	0.3			9820					
				C		49.9	39.2	10.9	0.4			11440					
				D		56.1	43.9		0.4			12840					
ARR-10423	F bed	Suntrana mine, gangway face 500' from portal	8.6	A	17.8	39.3	35.3	7.6	0.3			9430	9 1/2"	Garrett			
				B	10.1	43.0	38.6	8.3	0.3			10320					
				C		47.8	43.0	9.2	0.4			11475					
				D		52.7	47.3		0.4			12635					
ARR-11014	F bed	Suntrana mine, gangway face at chute No. 19	8.6	A	20.5	41.0	32.7	5.8	0.2			9410	8'7"	Pritchard & Garrett			
				B	13.0	44.8	35.8	6.4	0.2			10295					
				C		51.6	41.1	7.3	0.3			11840					
				D		55.6	44.4		0.3			12770					
ARR-2934	Bed No. 1	Suntrana mine	15.6	A	20.7	36.9	32.2	10.2	0.1			8520	32'9"	J. J. Corey			
				B	6.0	43.7	38.2	12.1	0.1			10090					
				C		46.5	40.6	12.9	0.1			10740					
				D		53.4	46.6		0.2			12320					
ARR-10190	Bed No. 1	425' E. of Alaska Creek, N. side of Healy River	16.5	A	22.9	39.7	30.3	7.1	0.2			8665	Lower 14' of upper 19'	Marstrander			
				B	7.7	47.5	36.3	8.5	0.2			10380					
				C		51.5	39.3	9.2	0.3			11240					
				D		56.7	43.3		0.3			12380					
ARR-2935	Bed No. 2	Suntrana mine	19.4	A	25.3	36.9	30.7	7.1	0.1			8215	25'11 1/2"	J. J. Corey			
				B	7.3	45.8	38.1	8.8	0.1			10195					
				C		49.4	41.1	9.5	0.1			10995					
				D		54.6	45.4		0.2			12150					
ARR-11013	Bed No. 3	Suntrana mine, face of chute No. 27 at counter 50' above gangway	9.7	A	23.9	39.5	30.9	5.7	0.1			8640	24'	Pritchard & Garrett			
				B	15.7	43.8	34.2	6.3	0.1			9570					
				C		51.9	40.6	7.5	0.1			11350					
				D		56.1	43.9		0.1			12270					
USBM-B-80610	Bed No. 3	Suntrana mine, face E. gangway approx. chute No. 40	8.5	A	25.1	36.2	35.2	3.5	0.1	6.6	50.7	0.6	38.5	8580	Lower 14' 3 5/8"	M. L. Sharpe & H. Fiedler	
				B	18.2	39.6	38.4	3.8	0.1	6.2	55.5	0.6	33.8	9380			
				C		48.4	46.9	4.7	0.1	5.1	67.8	0.8	21.5	11460			
				D		50.8	49.2		0.1	5.4	71.1	0.8	22.6	12020			
USBM-B-80609	Bed No. 3	Suntrana mine, face counter be- tween rooms 37 and 38, 55' above gangway	8.3	A	25.4	36.5	33.8	4.3	0.2	6.6	49.7	0.6	38.6	8440	Upper 10'6 1/2"	M. L. Sharpe & H. Fiedler	
				B	18.7	39.8	36.8	4.7	0.2	6.2	54.2	0.7	34.0	9210			
				C		48.9	45.4	5.7	0.3	5.1	66.6	0.9	21.4	11330			
				D		51.9	48.1		0.3	5.4	70.7	0.9	22.7	12020			
USBM-C-30895	Bed No. 3	W. bank of Cripple Creek	17.6	A	25.6	36.3	34.0	4.1	0.1	6.4	49.1	0.7	39.6	8330	Upper 6'6"	C. Wahrhaftig, M. Morsing & J. Freedman	
				B	9.7	44.1	41.2	5.0	0.1	5.3	59.7	0.8	29.1	10110			
				C		48.8	45.7	5.5	0.1	4.7	66.0	0.9	22.8	11190			
				D		51.6	48.4		0.2	5.0	69.9	1.0	23.9	11840			
USBM-C-30892	Bed No. 3	W. bank of Cripple Creek	17.0	A	24.6	37.9	32.8	4.7	0.1	6.5	49.8	0.7	38.2	8530	Lower 5'10"	C. Wahrhaftig M. Morsing & J. Freedman	
				B	9.2	39.6	39.6	5.6	0.2	5.6	60.0	0.8	27.8	10400			
				C		43.6	43.6	6.2	0.2	5.0	66.1	0.9	21.6	11450			
				D		46.4	46.4		0.2	5.4	70.5	1.0	22.9	12200			
USBM-R-67587	Bed No. 4	Suntrana mine, room 108, 50' above counter	11.4	A	24.2	33.8	30.6	11.4	0.2	6.2	45.7	0.7	35.8	7780	2360	6'3"	M. L. Sharpe
				B	14.4	38.2	34.5	12.9	0.3	5.6	51.5	0.8	28.9	8770			
				C		44.6	40.4	15.0	0.3	4.6	60.2	0.9	19.0	10250			
				D		52.5	47.5		0.4	5.4	70.9	1.0	22.3	12060			
ARR-3974	Bed No. 5	Suntrana mine	17.2	A	22.6	37.0	30.5	9.9	0.1				8265	7'	M. L. Sharpe		
				B	6.5	44.7	36.9	11.9	0.1				9985				
				C		47.8	39.4	12.8	0.1				10680				
				D		54.8	45.2		0.2				12245				
USBM-A-32840	Bed No. 6	Suntrana mine	5.0	A	20.0	40.9	32.0	7.1	0.2	6.5	52.0	0.7	33.5	9180	Car sample	B. A. Wennesstrom	
				B	15.8	43.0	33.7	7.5	0.2	6.3	54.8	0.7	30.5	9660			
				C		51.1	40.0	8.9	0.2	5.3	65.0	0.9	19.7	11470			
				D		56.1	43.9		0.2	5.9	71.4	0.9	21.6	12600			
ARR-2938	Bed No. 6	Suntrana mine, gangway face on W. side	17.6	A	22.1	42.0	28.8	7.1	0.1				8935	10'2"	J. J. Corey		
				B	6.1	50.7	34.7	8.5	0.1				10765				
				C		53.9	37.0	9.1	0.1				11470				
				D		59.3	40.7		0.2				12620				
USBM-C-30893	Bed No. 6	W. bank of Cripple Creek	16.7	A	23.9	39.6	28.0	8.5	0.2	6.5	47.3	0.6	36.9	8230	2190	Lower 12'	C. Wahrhaftig, M. Morsing and J. Freedman
				B	8.7	47.6	33.4	10.3	0.2	5.6	56.8	0.8	26.3	9870			
				C		52.1	36.7	11.2	0.3	5.1	62.2	0.8	20.4	10810			
				D		58.7	41.3		0.3	5.7	70.1	1.0	22.9	12180			
ARR-10208	Basal bed	S. bank Healy River in Sec. 12, T12S, R6W	7.3	A	11.7	41.8	36.6	9.9	0.3				10385	40' (?)	Marstrander		
				B	4.7	45.1	39.5	10.7	0.3				11205				
				C		47.3	41.5	11.2	0.3				11765				
				D		53.3	46.7		0.4				13246				
ARR-10203	2nd. bed above base	S. bank Healy River in Sec. 12, T12S, R6W	8.2	A	13.4	39.2	36.5	11.9	0.3				9770	20' (?)	Marstrander		
				B	5.7	41.5	39.8	13.0	0.3				10640				
				C		45.3	41.0	13.7	0.3				11285				
				D		51.1	48.9		0.4				13080				
ARR-10204	3rd. bed above base	S. bank Healy River in Sec. 12, T12S, R6W	9.6	A	14.9	38.3	36.3	10.5	0.3				9755	28' (?)	Marstrander		
				B	5.9	42.3	40.2	11.6	0.3				10790				
				C		45.0	42.7	12.3	0.4				11460				
				D		51.4	48.6		0.4				13070				
ARR-10032	Moose bed	S. bank Healy River in Sec. 12, T12S, R6W	13.0	A	19.0	42.4	35.3	3.3	0.2				10260	40'	Marstrander		
				B	6.9	48.7	40.6	3.8	0.2				11795				
				C		52.3	43.6	4.1	0.2				12670				
				D		54.6	45.4		0.3				13205				
ARR-10035	Moose bed	S. bank Healy River in Sec. 12, T12S, R6W	13.5	A	19.8	42.1	34.5	3.6	0.2				9965	40'	Marstrander		
				B	7.3	48.6	39.9	4.2	0.2				11520				
				C		52.5	43.0	4.5	0.2				12425				
				D		55.0	45.0		0.3				13005				
ARR-10034	Bed No. 1	N. bank Healy River in Secs. 11 & 12, T12S, R6W	15.0	A	22.0	39.6	29.0	9.4	0.2				8665	16' taken at angle of 45°	Marstrander		
				B	8.2	46.7	34.1	11.0	0.2				10195				
				C		50.7	37.2	12.1	0.3				11110				
				D		57.7	42.3		0.3				12635				
ARR-1035	Bed No. 1 (?)	N. bank Healy River in Secs. 11 & 12, T12S, R6W	5.5	A	17.0	42.9	36.1	4.0	0.2				10335	Approx. 40'	J. J. Corey		
				B	12.2	45.4	38.2	4.2	0.2				10937				
				C		51.7	43.5	4.8	0.2				12456				
				D		54.3	45.7		0.3				13084				

1/ Samples prefixed ARR analyzed by M. L. Sharpe, Chief Coal Sampler and Analyst, Alaska Railroad, Anchorage, Alaska; Samples prefixed USBM analyzed at U. S. Bureau of Mines Experiment Station, Pittsburgh, Pa.

2/ A, as received; B, air dried; C, moisture free; D, moisture and ash free.