

TABLE 1
Analyses of coal from Costello Creek Basin

37846

Analysis No.	Location of sample	Laboratory No.	Air dry loss, percent	Form of analysis*	Moisture, percent	Volatile matter, percent	Fixed carbon, percent	Ash, percent	Sulfur, percent	Heating value, B.t.u.	Thickness of coal sampled	Remarks
1	Car shipment. Composite analysis of coal shipped to Ft. Richardson during Jan. 1942	ARR-8658	12.4	A	17.3	37.4	39.3	6.0	0.5	10,125		Anal. by M. L. Sharp
				B	5.6	42.7	44.8	6.9	0.6	11,560		
				C	--	45.2	47.5	7.3	0.6	12,245		
				D	--	48.8	51.2	--	0.7	13,205		
2	Composite analysis of coal shipped to Ft. Richardson during Feb. 1942	ARR-8763	8.5	A	17.1	40.0	35.8	7.1	0.5	10,020		Anal. by M. L. Sharp
				B	9.4	43.7	39.1	7.8	0.5	10,950		
				C	--	48.2	43.2	8.6	0.6	12,080		
				D	--	52.8	47.2	--	0.7	13,210		
3	Composite analysis of coal shipped to Ft. Richardson during March 1942	ARR-8842	6.1	A	16.1	36.8	40.0	6.1	0.5	10,005		Anal. by M. L. Sharp
				B	10.7	39.2	43.6	6.5	0.5	10,635		
				C	--	45.0	47.7	7.3	0.5	11,925		
				D	--	48.6	51.4	--	0.6	12,855		
4	Composite analysis of coal shipped to Ft. Richardson during Apr. 1942	ARR-8921	7.1	A	14.3	41.6	37.0	7.1	0.5	10,210		Anal. by M. L. Sharp
				B	7.7	44.9	39.8	7.6	0.5	10,990		
				C	--	48.5	43.2	8.3	0.6	11,915		
				D	--	52.9	47.1	--	0.6	12,985		
5	Composite analysis of coal shipped to Ft. Richardson during Jan. 1943	ARR-9531	9.5	A	16.6	35.9	38.6	8.9	0.5	9,955		Anal. by M. L. Sharp
				B	8.1	39.5	42.6	9.8	0.5	10,965		
				C	--	43.0	46.3	10.7	0.6	11,935		
				D	--	48.2	51.8	--	0.7	13,360		
6	Approx. 450 feet from portal, entry no. 2, at face in haulage way, Dunkle Bed	USBM-C-1804	5.5	A	18.4	32.0	40.4	9.2	0.6	9,700	5' 5"	Anal. by H. M. Cooper, coll. by C. R. Garrett
				B	13.6	33.9	42.8	9.7	0.7	10,260		
				C	--	39.2	49.5	11.3	0.8	11,880		
				D	--	44.2	55.8	--	0.8	13,380		
7	140 ft. from portal, entry no. 1, 30 ft. to face in room no. 2 N.	USBM-C-1805	5.2	A	18.8	33.6	41.4	6.2	0.5	10,040	6' 2"	Anal. by H. M. Cooper, coll. by C. R. Garrett
				B	14.3	35.5	43.6	6.6	0.5	10,590		
				C	--	41.4	51.0	7.6	0.6	12,360		
				D	--	44.8	55.2	--	0.6	13,380		
8	40 ft. from portal, entry no. 2, room no. 1, 120' to face from haulage way	USBM-C-1806	3.1	A	15.9	35.9	42.2	6.0	0.5	10,600	7' 4"	Anal. by H. M. Cooper, coll. by C. R. Garrett
				B	13.2	37.1	43.5	6.2	0.5	10,940		
				C	--	42.7	50.1	7.2	0.6	12,610		
				D	--	46.0	54.0	--	0.6	13,580		
9	DDH 16 51' 6" to 56' 0"	ARR-10175	-	A	11.2	42.5	35.6	10.7	0.5	10,185	4' 6"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	47.9	40.1	12.0	0.6	11,470		
				D	--	54.4	45.6	--	0.6	13,035		
10	DDH 16 57' 6" to 60' 6"	ARR-10176	-	A	11.7	40.9	37.0	10.4	0.5	10,200	3' 0"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	46.2	42.0	11.8	0.6	11,565		
				D	--	52.5	47.5	--	0.6	13,095		
11	DDH 16 63' 6" to 65' 10"	ARR-10177	-	A	11.0	37.1	38.1	13.8	0.5	9,670	2' 4"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	41.7	42.8	15.5	0.6	10,870		
				D	--	49.3	50.7	--	0.7	12,860		
12	DDH 15 58' 0" to 62' 0"	ARR-10155	-	A	6.3	27.2	19.0	47.5	--	--	4' 0"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	29.0	20.3	50.7	--	--		
				D	--	58.5	41.1	--	--	--		
13	Approx. 40' from portal, entry no. 1. In raise 5' above hanging wall of "Stevens" bed (Dunkle bed)	USBM-C-1807	4.9	A	18.2	34.3	38.9	7.6	0.5	9,970	4' 10"	Anal. by H. M. Cooper, coll. by C. R. Garrett
				B	13.8	36.1	42.0	8.1	0.5	10,520		
				C	--	41.9	48.8	9.3	0.6	12,200		
				D	--	46.2	53.8	--	0.6	13,450		
14	Trench No. 2 Alt., 2862.0' to 2865.6'	ARR-10089	4.2	A	12.2	36.6	31.4	19.8	0.4	8,655	3' 7"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	8.3	38.2	32.8	20.7	0.4	9,035		
				C	--	41.6	35.8	22.6	0.5	9,860		
				D	--	53.8	46.2	--	0.7	12,730		
15	Trench No. 1, Alt., 2866.6' to 2870.0'	ARR-10090	5.4	A	15.1	43.4	23.2	18.3	0.4	7,985	3' 5"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	10.3	45.9	24.5	19.3	0.4	8,440		
				C	--	51.1	27.3	21.6	0.5	9,405		
				D	--	65.2	34.8	--	0.8	11,995		
16	DDH 11 89' 5" to 91' 11"	ARR-10091	6.4	A	12.8	33.1	33.1	21.0	0.5	8,510	2' 6"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	6.8	35.4	35.4	22.4	0.5	9,090		
				C	--	38.0	38.0	24.0	0.6	9,760		
				D	--	50.0	50.0	--	0.8	12,860		
17	DDH 12 33' 3" to 36' 11"	ARR-10092	5.1	A	10.4	37.1	40.1	12.4	0.6	10,050	3' 8"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	5.6	39.1	42.2	13.1	0.6	10,590		
				C	--	41.4	44.8	13.8	0.7	11,215		
				D	--	48.1	51.9	--	0.8	13,015		
18	DDH 13 40' 6" to 45' 0"	ARR-10113	2.8	A	8.7	37.7	41.4	12.2	0.5	10,115	4' 6"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	6.1	38.8	42.5	12.6	0.5	10,405		
				C	--	41.3	45.3	13.4	0.5	11,075		
				D	--	47.7	52.3	--	0.6	12,785		
19	DDH 14 107' 10" to 117' 2"	ARR-10114	2.5	A	8.9	38.9	38.2	14.0	0.4	9,940	9' 4"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				B	6.6	39.9	39.2	14.3	0.4	10,195		
				C	--	42.7	41.9	15.4	0.4	10,315		
				D	--	50.5	49.5	--	0.5	12,890		
20	DDH 15 44' 0" to 46' 6"	ARR-10153	-	A	10.8	36.4	35.8	17.0	0.3	9,240	2' 6"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	40.8	40.1	19.1	0.3	10,360		
				D	--	50.4	49.6	--	0.4	12,795		
21	DDH 15 50' 2" to 55' 0"	ARR-10154	-	A	10.1	35.5	33.2	21.2	0.4	8,875	4' 10"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	39.5	36.9	23.6	0.4	9,870		
				D	--	52.4	47.6	--	0.6	12,735		
22	DDH 16 38' 0" to 43' 0"	ARR-10173	-	A	13.0	36.6	37.2	13.2	0.4	9,635	5' 0"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	42.1	42.7	15.2	0.5	11,070		
				D	--	49.6	50.4	--	0.5	13,055		
23	DDH 16 45' 6" to 48' 6"	ARR-10174	-	A	11.0	38.6	37.1	13.3	0.4	9,820	3' 0"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	43.4	41.7	14.9	0.5	11,035		
				D	--	51.0	49.0	--	0.5	12,970		
24	DDH 17 57' 6" to 60' 0"	ARR-10178	-	A	11.7	38.7	37.6	12.0	0.5	9,920	2' 6"	Anal. by M. L. Sharp, coll. by F. A. Rutledge
				C	--	43.8	42.6	13.6	0.6	11,240		
				D	--	50.7	49.3	--	0.7	13,005		

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

Analyses 1 through 12, of coal from Dunkle bed; analyses 13 through 24, of coal from "Billie" beds.