

SASKATCHEWAN COAL FIELDS.

Estevan Area.

Description.	The Bienfait Mine. Bienfait. Sec. 19, Tp. 2, R. 6, W. 2 meridian.						Saskatchewan Coal, Brick and Power Company. Shand. Shand Mine. Sec. 4, Tp. 2, R. 7, W. 2 meridian.					
	R	1,077 A D	D	R	1,078 A D	D	R	982 A D	D	R	1,081 A D	D
Sample No.	14-0	...	...	13-4	...	...	10-6	...	...	8-6	...	...
Moisture condition (see note p. 3)	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.
Loss on air-drying	%	...	...	...	...	...	...	...	...	...	...	...
Results obtained by	...	...	...	...	...	...	...	...	...	...	...	...
Proximate analysis:—	...	...	...	...	...	...	...	...	...	...	...	...
Moisture	34.3	23.6	...	34.2	24.0	...	34.6	26.9	...	34.8	28.6	...
Ash	5.5	6.4	8.4	6.1	7.1	9.3	8.6	9.6	13.2	10.0	10.9	15.3
Volatile matter	27.0	31.4	41.1	30.0	34.6	45.6	24.9	27.8	38.0	24.5	26.9	37.6
Fixed carbon	33.2	38.6	50.5	29.7	34.3	45.1	31.9	35.7	48.8	30.7	33.6	47.1
Ultimate analysis:—	...	...	...	...	...	...	...	...	...	...	...	...
Carbon	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
Hydrogen	6.4	5.8	3.8	6.4	5.8	3.8	6.4	5.8	3.8	6.4	5.8	3.8
Ash	8.6	9.6	13.2	8.6	9.6	13.2	8.6	9.6	13.2	8.6	9.6	13.2
Sulphur	0.3	0.4	0.5	0.3	0.4	0.5	0.3	0.4	0.5	0.3	0.4	0.5
Nitrogen	0.7	0.8	1.1	0.7	0.8	1.1	0.7	0.8	1.1	0.7	0.8	1.1
Oxygen	43.2	37.8	19.0	43.2	37.8	19.0	43.2	37.8	19.0	43.2	37.8	19.0
Calorific value:—	...	...	...	...	...	...	...	...	...	...	...	...
Calories per gram, gross	3,790	4,240	5,800	3,790	4,240	5,800	3,790	4,240	5,800	3,790	4,240	5,800
B. Th. U. per lb., gross	6,830	7,640	10,450	6,830	7,640	10,450	6,830	7,640	10,450	6,830	7,640	10,450
Fuel ratio	1-25	1-25	1-25	0-99	0-99	0-99	1-30	1-30	1-30	1-25	1-25	1-25
Carbon-Hydrogen ratio	...	...	...	...	...	...	6-4	7-9	16-4	...	...	...
Coking properties	non-caking			non-caking			non-caking			non-caking		
Hoffmann potash test	1			1			1			1		
Location in mine	No. 1 west level			No. 5 east entry			30 ton. Lump			9 ft. seam, entry off main, south entry		
Kind of sample	Mine			Mine			Mine authorities, by request.			W. J. Dick		
Quality of coal	W. J. Dick, Commission of Conservation.			W. J. Dick			Feb. 1917. Small sample			1917		
Taken by	Summer of 1917			1917			April 30, 1917.					
Date of sampling												
Remarks												