

SASKATCHEWAN COAL FIELDS.

Estevan Area.

Description.	Western Dominion Collieries, Ltd., Taylorton.												Manitoba & Saskatchewan Coal Co., Ltd., Sec. 10, Tp. 2, R. 6, W. 2 meridian.		
	Taylorton mine, Sec. 3, Tp. 2, R. 6, W. 2 meridian.														
Sample No.	M 40			M 2,040			1,075			1,076			1,082		
Moisture condition (see note p. 3).	R	AD	D	R	AD	D	R	AD	D	R	AD	D	R	AD	D
Loss on air-drying.	14.7			13.7			13.7			12.9			9.0		
Results obtained by.	Calc.	Calc.	Anal.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.
Proximate analysis:—															
Moisture.....	30.1	18.0	—	34.3	23.9	—	33.8	24.0	—	34.1	27.6	—	34.1	27.6	—
Ash.....	5.6	6.6	8.1	6.8	7.8	10.3	6.5	7.5	9.9	7.6	8.3	11.5	7.6	8.3	11.5
Volatile matter.....	34.3	40.2	49.0	26.3	30.5	40.1	26.0	29.8	39.3	25.6	28.2	38.9	25.6	28.2	38.9
Fixed carbon.....	30.0	35.2	42.9	32.6	37.8	49.6	33.7	38.7	50.8	32.7	35.9	49.6	32.7	35.9	49.6
Ultimate analysis:—															
Carbon.....	41.8	49.0	59.8	64.7	—	—	—	—	—	—	—	—	—	—	—
Hydrogen.....	6.8	6.0	4.8	4.5	—	—	—	—	—	—	—	—	—	—	—
Ash.....	5.6	6.6	8.1	9.4	—	—	—	—	—	—	—	—	—	—	—
Sulphur.....	0.4	0.5	0.6	0.7	—	—	—	—	—	—	—	—	—	—	—
Nitrogen.....	0.7	0.8	1.0	1.1	—	—	—	—	—	—	—	—	—	—	—
Oxygen.....	44.7	37.1	25.7	19.6	—	—	—	—	—	—	—	—	—	—	—
Calorific value:—															
Calories per gram, gross.....	4,150	4,870	5,940	6,010	—	—	—	—	—	—	—	—	—	—	—
B. Th. U. per lb., gross.....	7,480	8,770	10,690	10,820	—	—	—	—	—	—	—	—	—	—	—
Fuel ratio.....	0.88	0.88	0.88	1.10	1.25	1.25	1.25	1.30	1.30	1.30	1.25	1.25	1.25	1.25	1.25
Carbon-Hydrogen ratio.....	6.2	8.2	12.4	14.4	—	—	—	—	—	—	—	—	—	—	—
Coking properties.....	non-coking.			non-coking.			non-coking.			non-coking.			non-coking.		
Hoffmann potash test.....															
Location in mine.....							8 ft. seam—straight north entry.			No. 4 west entry.			Main south entry.		
Kind of sample.....	Commercial—3 tons.			Commercial—5 tons.			Mine.			Mine.			Mine.		
Quality of coal.....	Run-of-mine.			Run-of-mine.											
Taken by.....	T. Denis, Mines Branch, Ottawa.			Mine authorities.			W. J. Dick, Commission of Conservation, Ottawa.			W. J. Dick.			W. J. Dick.		
Date of sampling.....	July 11, 1908.			July 25, 1908.			Summer of 1917.			1917.			1917.		
Remarks.....															