

NAME OF PROPERTY LAKE KATHLYN

OBJECT LOCATED - main adit.

UNCERTAINTY IN METRES 100. Lat. 54°49'32" Long. 127°16'30"

Mining Division Omineca District Range 5 Coast

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

On Hudson Bay Mountain, coal deposits occur in sedimentary rocks of Jurassic age. At Glacier Gulch more than 1,500 feet of these sedimentary rocks have escaped erosion, and coal seams occur at irregular intervals throughout the lower 600 feet of the formation. At the Lake Kathlyn coal mine on the southeast side of the gulch, about twenty of these seams have been prospected. Most of them range from 6 to 12 inches in width, but two of the seams are up to 4 feet wide, and two others show widths of 18 and 24 inches respectively. The two larger seams are 200 feet apart, the lower one 150 feet above the contact of the sedimentary and underlying volcanic rocks. In this vicinity the sedimentary strata strike northwest and dip about 50 degrees northeast. Faulting has occurred along the contact of the sedimentary and volcanic rocks, and many of the coal seams have been sheared or squeezed and in some cases pulverized by fault movement.

Analyses made on samples from the Lake Kathlyn mine indicate that the coal is variable in quality. It contains roughly 14 per cent moisture, from 9 to 28 per cent ash, 3 to 7 per cent volatile matter, and from 50 to 70 per cent fixed carbon. This coal contains more moisture than normal anthracite and has a graphitic colour.

The coal is classified as anthracite (meta-anthracite group), and low volatile bituminous. Probable recoverable reserves have been estimated at 6,720,000 tons.

Associated minerals or products of value

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at elevations of 2,500 to 3,000 feet on the south side of Glacier Gulch, 5 miles northwest of Smithers.

The Lake Kathlyn Anthracite Coal Company, Limited, was incorporated in June 1915 as a private company, apparently by Messrs. Ballard, Frank, and associates, of Smithers. Ten coal licenses were reported owned or controlled by Frank X. Frank in 1917. Work to that date included 90 feet of crosscutting in 2 adits. In 1926 the property included Coal License Nos. 11172 and 11198, owned by Frank X. Frank and George H. Ballard.

British Columbia Anthracite, Limited, incorporated March 1926, acquired an option to mine coal on a royalty basis. Some work was done during 1926 in extending the adits. The company charter was surrendered in 1929.

The Lake Kathlyn Anthracite Coal Company, Limited, resumed work in the fall of 1932. Intermittent operations continued into 1934. One of the old adits was extended to a length of 220 feet, and a new crosscut adit was driven 450 feet.

In 1934 a new organization was formed by Thomas Campbell and associates to take control of the property under the name "Northwest Anthracite Syndicate". Intermittent work in drifting, crosscutting, and stoping continued into 1937. A small tonnage of coal was mined, and marketed locally.

The workings at that time included a Main adit at elevation 2,450 feet, driven south and southwesterly as a crosscut for 475 feet to a drift on two coal seams. A drift was run 135 feet easterly from the main crosscut and a raise put up about 60 feet. From the end of the east drift a crosscut extends 110 feet south, intersecting six coal seams all less than a foot thick. The drift to the west follows the two coal seams for 133 feet and then passes through 90 feet of loose slide rock to emerge as a ventilation adit. A small amount of stoping was done above the end of the main crosscut. No. 2 adit, 75 feet northeast of the Main adit, was driven 33 feet. No. 3 adit, at elevation 2,700 feet and about 400 feet south of the main adit, was driven 203 feet, with a 25 foot crosscut to the northeast 40 feet from the face.

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HISTORY OF PRODUCTION

REFERENCES

Kindle, E.D.; Mineral Resources, Hazelton and Smithers Areas, Cassiar and Coast Districts, British Columbia; Memoir 223, (Revised Edition), pp. 21, 134-138, Geol. Surv. of Canada, 1954.

Reports of Minister of Mines, British Columbia: 1917, p. 125; 1926, p. 161; 1932, pp. 90, 273; 1933, pp. 113, 337; 1934, p. G 32; 1935, p. G 27; 1936, p. G 43; 1937, p. G 32.

Report of the Royal Commission on Coal, Ottawa, 1946, pp. 47, 636.

Kerr, F.A.; Mineral Resources along the Canadian National Railway, between Prince Rupert and Prince George, British Columbia; Paper 36-20, pp. 131-133, Geol. Surv. of Canada.

MAP REFERENCES

Plan and vertical section at Lake Kathlyn coal mine, Sc. 1":175 feet, Fig. 12, accomp. Memoir 223.

Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.

Preliminary Map 44-23, Smithers, (Geol.), Sc. 1":2 miles, Paper 44-23, Geol. Surv. of Canada.

Sketch Map of Hudson Bay Mountain, (Geol. and Mineral Prospects), Sc. 1":1 mile, Fig. 1, accomp. Paper 36-20.

Map 5319 G, Smithers, (Aeromag.), Sc. 1":1 mile.

Map 93 L/14 W, Smithers, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
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