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PINE PASS

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MAPS (In Pocket)

BRITISH COLUMBIA COAL PROPERTIES	1" = 10 miles
PINE PASS PHOTOGEOLOGY	l"≈ 1 mile
MONKMAN PASS AREA	1" = 1,320"
MONKMAN PASS COLUMNAR SECTION	$1^{ii} = 200^{i}$

REPORT ON

McINTYRE PORCUPINE MINES LTD.

BRITISH COLUMBIA COAL LICENCES

LICENCES HELD:

PINE PASS AREA

Licence No.	Aarooga	Rental	Teeres No.	· · · · · · · · · · · · · · · · · · ·	Rental	
Licence No.	Acreage	Due Dec. 15	Licence No.	Acreage	Due Dec. 15	
1793	640	\$320.00	1798	640	\$320 .00	
1794	Ħ	12 .	1799		. n	
1795	tr	Ħ.	1800	tt .	IT	
1796	11	11	1801	11	n	
1797	, <mark>,</mark> ят	B	1802	11	n	
Total Rental	Due Dec.	15 = \$3,200.	00 .	:		

Licence Renewal 10 x $$25 = \frac{$250.00}{$2,450.00}$ Minimum Annual Expenditure \$3,450.00

MONKMAN PASS AREA

			•			
Licence No.	Acreage	Rental Due Oct. 7	Licence No.	Acreage	Rental Due Oct. 7	_
1158	640	\$320.00	1213	640	\$320.00	• .
1159	Ħ	et	1214	11	. tt	
1160	н.	• 11	1215	11	11	
1161	श	**	1216	4 4Ó	\$220,00	
1162	81	Ŧſ	1217	640	\$320.00	
11.65	- 21	51	1218	1 1	11	• •
1166	*1	77	1219		п	
1167	. 6 1	tt .	1220	ff	er.	
1168	Ħ.	t i '	1221	11	ti .	
1169	11	n	1222	t1	11	
1170	81	-11	1223	*1	tt	
1171		11	1224	. 11	11	
1172	H	1 1	1225	82	ft -	
1173	n	R	12.26	11	*1	

Licence Nc.	Acreage	Rental Due Oct. 7		Licence No.	Acreage	Rental Due_Oct7
1174	640	\$320.00		1227	640	\$320.00
1175	n	f)		1228	 II	Eł
1176	11	tī .	••	1229	t1	19
1177	41	. t ť ``		1230	n	IT .
1178	, JI	 \$1		1231	. II	11
1179	IT	. ti		1232	11	t 1
1180	П	n		1233	. II	ti , ,
1181	41	ti		1234	612	\$306.00
1182	્ય	12		1235	640 -	\$320.00
1183	11	ti .		1236	11	tr
1184	ti	ŧr		1237	n	11
1185	11	11	•••	1238	, H	tr ,
1186) H			1239	'n	11
. 1187	17	11		1240	11	n ·
1188	n	n		1241	P2	11
1189	11	Pt - 1		1242	11	tt
1190	F1	11		1243	a 1	11
1191	11	1 7		1244	¥1	11
1192	n	H		1245	11	11
1193	н	tr		1246	¶1	H
1194	81	tr		1247	n	. 11
1195	600	\$300.00		1248	н.	11
1197	640	\$320.00		1249	11	**
1198	11	11		1250	H	II .
1200	14	ti		1251 -	11	lt.
1201	11	tr		1252	480	\$240.00
1202	11			1253	640	\$320.00
1203	61	11		1254	n	11
1204	. f t	¥1 .		1255	Π.	N .
1205	ţt	tt .		1256	¥3	रा
1206	. H	N.		1257	n	Ħ ,
1207	#1	11		1258	tı	17
1208	t:	tr .		1259	1 7	17

Licence No.	Acreage	Rental Due Oct. 7	Licence No.	Acreage	Rental Due Oct. 7
1209	640 ,	\$320.00	1261	640	\$320.00
1210	\$1	11	1262	н.	- 87
1211	11	Ti	1272	. n	11
1212	tt		1286	11	11
Total Rental		•		Ħ	11

Licence Renewal 103 x \$25 = 2,575.00Minimum Annual Expenditure \$35,321.00

Therefore the minimum annual expenditure to maintain the company's licences in good standing is \$38,771.00.

The Monkman Pass licences were acquired from government reserve by posting a \$50,000.00 bond, to refund this bond will require an expenditure on these licences of at least \$150,000.00 by Oct. 7, 1973.

LOCATION AND ACCESS:

PINE PASS AREA

The Pine Pass licences were selected because of the proximity of possible coal to rail haulage. The north end of these 10 licences is within one mile of the P.G.E. railway 630 miles from Vancouver and the same distance from Prince Rupert. Access for personnel to an operation would be from the town of Chetwynd, 30 miles by paved highway to the east. The railroad is on the south side of the Pine River as is the property but a bridge would have to be built to get access to the highway. Gas and power lines follow the Pine River Valley.

MONKMAN PASS AREA

The main portion of these licences lie on either side of Kinuseo Creek valley on the eastern side of Monkman Pass, the only remaining undeveloped pass through the Rocky Mountains. Development of the area would require the construction of about 80 miles of railroad to connect with the C.N.R. about 50 miles east of Prince George for a total rail haul to Vancouver or Prince Rupert of 595 miles. Shipment via Prince Rupert to Japan for this coal would be some 800 miles less than the present mileage for Smoky River or Crows Nest coal.

Present access is by means of 80 miles of dirt road from the small Alberta town of Beaverlodge.

Included with these licences accessible from the Monkman Pass are those covering the coal measures extending for 40 miles to the southeast toward the Alberta border. Although accessible for exploration purposes, transportation by pipeline is envisioned for development of this area to the southeast.

GEOLOGY:

The diagramatic section below represents a 180-mile section of the coal bearing Lower Cretaceous sediments which outcrop between the Peace River and McIntyre's Smoky River mine.

PEACE RIVER	PINE PASS	MONKMAN	BELCOURT	SMOKY	:
	· .	HULCRO	SS shale	SHAFTSBURY	L .
· ·					··
		GATES	SS		
	MOOSEBAR	shale		- LUSCAR se	3
	·····	GETHI	NG ss	- , -	
· · · · · · · · · · · · · · · · · · ·		CADOM	IN cgl.	······································	
		NIKANA	SSIN ss		

--- COAL

Of this section McIntyre's Smoky River Mine covers 25 miles, our Monkman Pass licences 48 miles and the Pine Pass licences 5 miles.

Going northwest from Smoky the coal bearing Luscar formation is separated by the Moosebar marine shale which reaches a thickness of 1500 feet around Pine Pass and the continental sandstones above and below

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are called Gates and Gething. Around the Peace River the Gates is believed to be mainly of marine origin so that the coal is confined to the Gething horizon.

The most prominent marker horizon, the Cadomin conglomerate which is a persistent 40 feet thick where overlain by Luscar, thickens to 500 feet in the Belcourt-Monkman area, then thins rapidly to the northeast and is not recognized in the Peace River area.

COAL:

PINE PASS

These 10 licences were staked to cover an apparent flat area of Gething formation which could be amenable to underground mining. The area to the northeast, where the Gething is exposed along the Willow Creek anticline, was extensively drilled about 1948 by the B.C. government (Bull. No. 36). This work defines a good coking seam about 100 feet below the Gething-Moosebar contact which stratigraphically correlates with Brameda's Chamberlain seam.

Hole W19, shown on the accompanying plan, is the closest drilled to our licences and cut 12.2 feet assaying 9.2% ash, 0.5% sulfur and 20.8% volatile matter.

With no housing or railway construction required, these licences offer an exploration bet with low capital requirements.

MONKMAN PASS

The selection of licences in this area was made on the basis of available geology (G.S.C. Bulletin 152). The structural setting in the Kinuseo valley suggests the possibility of coal available for both open pit and underground mining depending on thickness and quality. To the southeast there are considerable strike lengths of Gates-Gething with uniform dips which again has possibility of either open pit or underground access.

An attempt was made to expose the Gates-Gething section in the Monkman Pass area which resulted in the exposure of 6 seams 5 to 14.5 feet thick for a total of 41 feet of coal in a 700-foot section of the

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Gates formation. The Gething section is incomplete; three seams between 4 and 13.5 feet have been exposed. A surface sample from one of these, a 10.5 foot seam gave the following analysis.

Two seams are partially exposed just above the Cadomin by an oil well access road in the vicinity of Red Deer Creek 24 miles southeast of the pass and a further 10 miles southeast Stott (Bull. 152) reports a 40 foot seam on Mt. Belcourt.

These indications suggest the presence of substantial tonnages of coal on the licences and although Denison has reported good quality coal both to the northwest and southeast, there remains a considerable amount of work to prove tonnages of recoverable coal of metallurgical grade.

Respectfully submitted,

Junited

J. W. MacLeod

JwMacL/nh October 7, 1971



















