

-PR-MT GORMAN 79(1)A-

PRELIMINARY REPORT ON THE GEOLOGY  
OF THE MT. GORMAN AND COAL RIDGE AREA  
B.C. COAL LICENSES

Prepared for Mr. W. Filipek  
of Edmonton, Alberta

By:

Dr. Alois Pribyl, Chief Geologist  
of the Geological and Geotechnical  
Institute of the Czechoslovak  
Academy of Sciences, Prague,  
Czechoslovakia

License #5740, 5741

N.T.S. Map Reference No.  
Jarvis Lakes (93-I-1F)

Edmonton, Alberta, Canada  
September 3, 1979

**OPEN FILE**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**00 549**

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A Preliminary Report on the Geology  
of the Mt. Gorman and Coal Ridge Area,  
B.C. coal licenses

Prepared for Mr. W. Filipek  
of Edmonton, Alberta

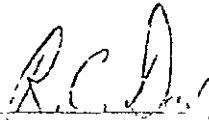
BY:



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Dr. Alois Přibyl, Chief Geologist of the  
Geological and Geotechnical Institute of  
the Czechoslovak Academy of Sciences,  
Prague, Czechoslovakia

and



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Robert C. Day, B. Sc. (Conc. in Geology)  
Freelance Prospecting Geologist of  
Edmonton, Alberta

Edmonton, Alberta, Canada  
September 3, 1979

## Introduction

In the summer of 1979, Dr. A. Pribyl and Mr. R. Day were requested by Mr. W. Filipek of Edmonton, Alberta to prepare a preliminary geological report and geological map on the Mt. Gorman and Coal Ridge area in B.C., coal licenses held by Mr. W. Filipek.

## Location

The Coal Ridge and Mt. Gorman coal licenses are comprised of two sections of land and are located in the province of British Columbia, Canada, on 1:50,000 topographic and map Jarvis Lakes (93-I-1P). The licenses are bounded by the Alberta-British Columbia border to the east, by Mt. Gorman to the north and by Gorman Creek to the west and southwest of Coal Ridge. These licenses are:

License # 5740	NTS	93-I-1	Block I	Units 1, 2, 11, 12
License # 5741	NTS	93-I-1	Block H	Units 81, 82, 91, 92

## Access

Access in this area is possible by helicopter from the Sherman Meadows forestry airstrip located approximately 110 miles southwest of the Town of Grande Prairie, Alberta, on the Wapiti Road.

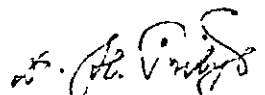
## Physiography

Elevations range from 3700' to as high as 8000' at Mt. Minnes. Treeline is at 5800' and forest cover consists mainly of mature spruce. All coal on the above licenses is above treeline.



Scope of Work

The undersigned acknowledge herewith that they agree with all opinions and recommendations specified in this preliminary report. They would like to express their gratitude to Mr. W. Filipek from Edmonton, Alberta who supplied them with valuable information.



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Dr. Alois Přibyl, Chief Geologist of the Geological and Geotechnical Institute of the Czechoslovak Academy of Sciences, Prague, Czechoslovakia

and



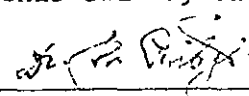
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Robin C. Day, B. Sc. (Conc. in Geology)  
Freelance Prospecting Geologist of  
Edmonton, Alberta

Certificate - I, Alois Příbyl of Prague, Czechoslovakia, hereby certify  
that:

- 1) I am Chief Geologist of the Geological and Geotechnical Institute of the Czechoslovak Academy of Sciences, Prague, Czechoslovakia.
- 2) I am a graduate of the Charles University of Prague with a doctorate degree of RNDr (Rerum Naturalium Doctoris) received in 1951 in Geology, Petrology and Palaeontology and later received a D. Sc. degree in 1963.
- 3) I am a member of the Society of Mineralogy and Geology in Czechoslovakia, the Palaeontological Society of Great Britain, the Palaeontological Society of the U.S.A., etc.
- 4) I have practised my profession as a geologist for more than 35 years.
- 5) I have published to date over 340 geological and palaeontological books and papers which are published in various languages (Czech, German, English, Russian, etc.).
- 6) I have no direct or indirect interest, nor do I expect to have any interest in the Mt. Gorman, and Coal Ridge, B.C. coal licenses held by Mr. W. Filipek, or in any of his mineral claims.
- 7) The report and recommendations are based on a personal examination of the above coal licenses mentioned during the period between August 1 and August 16, 1979.


Dated this 3rd day of September, 1979

  
\_\_\_\_\_  
Dr. A. Příbyl

Certificate - I, Robin C. Day, of Edmonton, Alberta, hereby certify that:

- 1) I am a graduate of the University of Alberta with a B. Sc. (Concentration in Geology) obtained in 1975. I have been engaged in freelance mapping and prospecting geology for four (4) years.
- 2) Experience - two seasons as an assistant, mapping in Palaeozoics in the Rocky Mountains north of the Peace River.
  - consulting for gravel resources in the Edmonton Area
  - placer mining in Burwash Creek, Yukon
  - prospecting for Au, Ag in Soukham and Northern B.C.
  - prospecting for asbestos in Northern B.C.
  - mapping coal licenses in the Jarvis Lakes map sheet
  - prospecting for base metals in the Yukon
- 3) I have no direct or indirect interest nor do I expect to have any interest in the Mt. Gorman and Coal Ridge B.C. coal licenses held by Mr. W. Filipek or in any of his mineral claims.
- 4) This report and recommendations are based on a personal examination of the above coal licenses mentioned, during the period between August 1 and August 17, 1979.

Dated this 3rd day of September 1979

  
\_\_\_\_\_  
Robin C. Day, B. Sc.

## THE GEOLOGY OF THE MT. GORMAN AND COAL RIDGE AREA B.C. COAL LICENSES

### Structural Geology

The structural geology of the mapped area is unusually simple. The main structural feature is a remnant of the Northeast limb of a large and gentle syncline, as outlined by the Cadomin Formation, which forms the Coal Ridge Spur South of Mt. Gorman and west of Coal Ridge. There are no folds or faults to be dealt with on the Coal Ridge licenses. Deformation of the bedding of the uppermost Gates Member of this formation is minimal. All bedding dips gently to the S.W.

### Stratigraphy

The coal licenses are underlain by the following Jurassic and Lower Cretaceous Formations.

Nikanassin Formation - The Nikanassin Formation is the oldest formation outcropping in the Mt. Gorman and Coal Ridge area. The strata of this formation consist of grey-brown to dark grey, fine to medium grained, ripple marked carbonaceous, grey to buff weathering, quartzitic sandstones, often laminated and showing cross-bedding, and black, carbonaceous interbedded siltstones of marine and non-marine origin which give the Nikanassin formation a ribbed appearance. The thickness approaches 6,000'. The lower and middle part of this formation is Jurassic in age and the upper part belongs to the Lower Cretaceous. Sedimentation of the upper part of this formation was in a brackish to deltaic environment which produced many thin coal seams from 6" to 5' thick in the upper part of the Nikanassin Formation.

Cadomin Formation - The Cadomin Formation lies unconformably over the Nikanassin Formation. This formation is approximately 80' thick in this area and is a poorly cemented conglomerate comprised predominantly of well rounded quartzite pebbles ranging in size from  $\frac{1}{4}$ " to over 6" in diameter. Well rounded pebbles of black, green and grey pebbles of chert are also seen. These are some cross-bedded, coarse grained sandstone lenses. The Cadomin Formation is an excellent marker and outlines the structural geology as a cliff forming unit in this area. No coal seams are present.

Gething Formation - The Gething Formation lies conformably over the Cadomin Formation approximately 150' thick in this area and is mainly non-marine sandstone and siltstone with some shales and minor conglomerates. A coal seam is at the top of this formation and is 8' - 10' thick in this area.

Moosebar Formation - This formation rests conformably over the older Gething Formation, is 120' - 170' thick and is comprised of grey to tan coloured marine shale with thin siltstones weathering to a rusty maroon colour. No coal seams are present.

Commotion Formation - The Gates Member of the Lower Commotion Formation is the main coal bearer of this area. Only the lower most Torrens River Member S.S. and the Gates Member are present in the licensed area. The middle Commotion (Hulcross Member) and the upper Commotion (Boulder Creek Member) have been eroded. The Torrens River Member lays conformably over the Moosebar Formation. This sandstone unit is approximately 40' thick, exhibits much cross-bedding, and is thin to thick bedded. The uppermost bed weathers a blue-grey colour and lays immediately below coal seam #1. The thickness of the remaining part of the Gates Member is about 310' with only the lowest four Gates coal seams present.

FILIFEK HOLDINGS LTD.  
TORRENS RIVER  
Sample No. NK-1 (trench)  
Seam No. Nikanassin Formation  
B.C. Coal License No.

PROXIMATE ANALYSIS:

Air-dry Basis

Dry Basis

Ash %	19.39	20.04
R.M.%	3.22	-
V.M.%	28.62	29.57
F.C.%	48.77	50.39

TOTAL SULPHUR %:

0.61

0.63

CALIFORIC VALUE:

Cal/gm.	6,230	6,440
BTU/lb.	11,210	11,580

FREE SWELLING INDEX:

1

August 22, 1979

CYCLONE ENGINEERING SALES LTD.

Thin bedded to platy, light brown weathering, siltstones and sandstones with thick weathering rinds are found above coal seam #1 in the Gates Member. They contain many plant fossils immediately above the coal seams.

#### Coal Seams

Five coal seams have been found in outcrops within the boundary of the licenses. Mainly:

- a) Gething Coal Seam: This seam occurs at the top of the Gething Formation and is approximately 10' thick. This coal seam can be seen on the top of Coal Ridge.
- b) Commotion Coal Seam #1: This seam is 6' - 9' thick at the outcrop of Coal Ridge, but is known to be 12' - 30' thick with an average thickness of 20' on adjoining coal licenses. This coal rests immediately above the Torrens River Member sandstone.
- c) Commotion Coal Seam #2: This seam is 12' - 15' thick and is approximately 50' above coal seam #1. The thickness of the sandstone between coal seams #1 and #2 is apparently highly variable as they are only 15' - 20' apart in outcrop in Wolverine Creek, to the North about 3 miles.
- d) Commotion Coal Seam #3: This seam is only 1' thick at the trenched outcrop on Coal Ridge. It is locally up to 5' thick and lies about 90' above seam #2.
- e) Commotion Coal Seam #4: This seam is 18' - 20' thick at the trenched outcrop on Coal Ridge. This is the thickest coal seam and is locally known on adjoining licenses, to average 30' in thickness. Coal seam #4 lies about 70' above coal seam #3. There is only 10' to 30' of sandstone overlying seam #4 on Coal Ridge. The overlying parts of the Commotion Formation have been eroded.

Remarks: The Gates coal seams on Coal Ridge are somewhat thinner than at other known outcrops and from logs in the immediate area. More thorough trenching should give a better idea as to true thickness. The numerical system for the coal seams was borrowed from Denison Mines - Saxon Coal Project - 1976/1978. Four coal seams (<sup>GATES</sup>Gething, 1, 2 and 4) appear to be mineable.



Composition and Quality of Coal Seams - Chemical Analysis of Surface

1946

FILIPEK HOLDINGS LTD.  
TORRENS RIVER  
Sample No. 2  
Seam No. Gething Seam  
B.C. Coal License No.

PROXIMATE ANALYSIS:

Air-dry Basis

Dry Basis

Ash %	17.62	19.00
R.M.%	7.25	-
V.M.%	24.20	26.09
F.C.%	50.92	54.91

TOTAL SULPHUR %:

0.29

0.31

CALORIFIC VALUE:

Cal/gm.	5,480	5,910
BTU/lb.	9,870	10,640

FREE SWELLING INDEX:

N/A

August 22, 1979

CYCLONE ENGINEERING SALES LTD.

FILIPEK HOLDINGS LTD.  
TORRENS RIVER  
Sample No. 1  
Seam No. 1  
B.C. Coal License No.

PROXIMATE ANALYSIS:

	<u>Air-dry Basis</u>	<u>Dry Basis</u>
Ash %	33.27	35.40
R.M.%	6.01	-
V.M.%	20.90	22.24
F.C.%	39.82	42.36

TOTAL SULPHUR %:

0.35                      0.37

CALORIFIC VALUE:

Cal/gm.	4,300	4,570
BTU/lb.	7,740	8,230

FREE SWELLING INDEX:

N/A

August 22, 1979

CYCLONE ENGINEERING SALES LTD.

FILIFEK HOLDINGS LTD.  
TORRENS RIVER  
Sample No. 3  
Seam No. 2  
B.C. Coal License No.

<u>PROXIMATE ANALYSIS:</u>	<u>Air-dry Basis</u>	<u>Dry Basis</u>
Ash %	23.62	24.80
R.M.%	4.74	-
V.M.%	22.68	23.80
F.C.%	48.96	51.40

<u>TOTAL SULPHUR %:</u>	0.35	0.37
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<u>CALORIFIC VALUE:</u>		
Cal/gm.	5,560	5,840
BTU/lb.	10,010	10,510

<u>FREE SWELLING INDEX:</u>	N/A
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August 22, 1979

CYCLONE ENGINEERING SALES LTD.

FIL.IPEK HOLDINGS LTD.  
TORRENS RIVER  
Sample No. 4  
Seam No. 4  
B.C. Coal License No.

PROXIMATE ANALYSIS:

Air-dry Basis

Dry Basis

Ash %	15.65	16.57
K.M.%	5.56	-
V.M.%	24.32	25.75
F.C.%	54.47	47.68

TOTAL SULPHUR %:

0.35

0.37

CALORIFIC VALUE:

Cal/gm.	6,040	6,400
BTU/lb.	10,870	11,510

FREE SWELLING INDEX:

N/A

August 22, 1979

CYCLONE ENGINEERING SALES LTD.

### Conclusions and Recommendations

From the data obtained from the preliminary geological mapping of the coal licenses on Coal Ridge, B.C., the authors arrived at the following conclusions which are submitted to Mr. W. Filipek for his consideration.

- 1) No drilling is required to prove up the Coal Ridge coal licenses as the coal seams can be seen in outcrop around the entire Ridge.
- 2) The whole of Coal Ridge is suitable for open pit bench mining as all coal seams lie above treeline, on a dip slope of approximately  $9^{\circ}$  with stripping ratios ranging from 1:1 on coal seam #4 to a maximum of 15:1 on coal seam #2 and the Gething coal seam.
- 3) Tonnages are sufficient to support the mining of 400,000 tons of raw coal per year for ten (10) years.
- 4) Adits should be made in all coal seams except Commotion Coal seam #3 to recover unoxidized bulk samples for analysis. Heavy equipment cannot easily be transported to the top of Coal Ridge. Helicopter Transport of a compressor, hose, timber, dynamite, tools, fuel, etc. will be necessary to make adits. All adits should be made near the southwest end of Coal Ridge where steeper slopes will facilitate shorter adits.
- 5) Railroad and roads may be built from Dome Creek, B.C. from the C.N. Rail Line, up Jarvis Pass, by Jarvis Lakes, B.C. to Stinking Creek - Torrens River, Alberta. Exploration access is about one (1) mile from the Kakwa Mines Ltd. Stinking Creek - Horn Ridge Road.



Preliminary Calculation of Coal Reserves

The preliminary calculation of coal reserves on Coal Ridge area was made by the counting of centimeter squares which give 4,000,000 to as much as 4,500,000,000<sup>1</sup> long tons of raw coal reserves. The Gething coal seam and Commotion seams numbers 1, 2 and 4 have been included in the calculations:

Gething Coal	-	1.7 x 10 <sup>6</sup> m <sup>3</sup>	(1.01 x 10 <sup>6</sup> long tons)
Commotion Coal #1	-	.78 x 10 <sup>6</sup> m <sup>3</sup>	(1.01 x 10 <sup>6</sup> long tons)
	#2	.88 x 10 <sup>6</sup> m <sup>3</sup>	(1.14 x 10 <sup>6</sup> long tons)
	#4	.33 x 10 <sup>6</sup> m <sup>3</sup>	(.43 x 10 <sup>6</sup> long tons)

\* Conversion Factor of 1.3 26 114

References:

- 1) Useful Reports
  - a) Blackstock, W.J., 1970, Preliminary Report on the Kakwa River Coal Lands held by Kakwa Mines Ltd. prepared by Alcon Engineering Ltd. Calgary, Alberta, pp. 1-33 and maps.
  - b) Pribyl, A., 1970, Preliminary Report on the Geology of the Territory between the Kakwa and Torrens Rivers in Northwestern Alberta, Canada (prepared for Mr. W. Filipek of Kakwa Mines Ltd.), pp. 1-17 and maps.
  - c) Pribyl, A. and Vach, J., 1971, Preliminary Report on the Geology of the Territory between Coal Ridge and Rim Ridge in Northwestern Alberta, Canada (prepared for Coal Ridge Mines Ltd.), pp. 1-7 and maps.

*V. 3-1-76*

- d) Pribyl, A., and team of experts, 1973, opinion and recommendations on order of magnitude, feasibility study no. 8, 1972, Kakwa Coal Project, Alberta, Notus Exploration Company, Vancouver, B.C., pp. 1-53 (geology), 1-29 (mining part) texts and maps.
- e) Robertson, D.B. and McFall, C.E., 1972, Progress Reports, Kakwa Coal Project - Notus Exploration Co., Suppl. App. Nos I-II (Text and Drill Hole logs).
- f) Pt. III - A report to Notus Exploration Co. on the Preparation, Analysis and Washing of Seams 3, 3a, and 4 of the Kakwa Coal Project - Birtley Engineering (Canada) Ltd. Calgary, Alberta, pp. 1-174.
- g) Vogan, Ross S., 1970, Report on Geology of Kakwa River Coal Project (prepared for Woods Petroleum of Canada Ltd., Calgary), pp. 1-369 and maps.

## 2. Publications

Irish, E.J., 1965, Geology of the Rocky Mountain Foothills, Alberta (between latitudes  $50^{\circ} - 15'$  and  $54^{\circ} - 25'$ ). Geological Survey of Canada, Dept. of Mines etc. Memoir 334, pp. 1-241 and maps. Ottawa.

Stott, J., 1960, Cretaceous Rocks between Smokey and Pine Rivers, Rocky Mountain Foothills, Alberta and British Columbia, G.S.C. Dept. of Mines and Technical Surveys, Paper 68-16, pp. 1-62, Ottawa.

### Supplement

1. Preliminary Geological Map - Scale 1:12,500.
2. Geographical Map with location of licenses.
3. Geological Cross-sections.

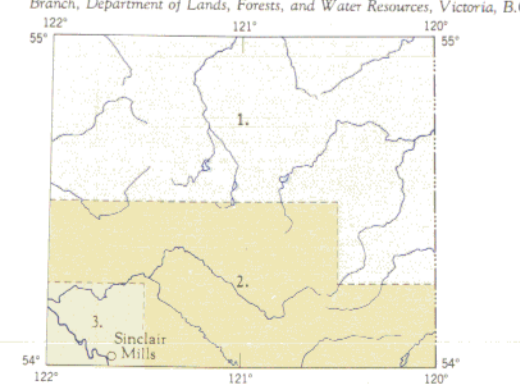




**WACLAW FILIPEK**

COAL	PERMITS
1	3888
2	3837
3	3836
4	3895
5	3834
6	3898
7	3891
8	3830
9	3889
10	3885
11	C.L. 5741
12	C.L. 5740

First Status Edition, compiled and produced by Geographic Division, Surveys and Mapping Branch, Department of Lands, Forests, and Water Resources, Victoria, B.C., 1967.



**RELIABILITY DIAGRAM**  
 Plans and indexes with price lists may be obtained from the Map Production Division, British Columbia Land Survey, Parliament Buildings, Victoria, B.C.

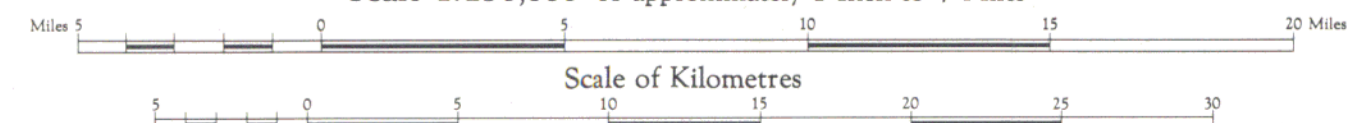
**REFERENCE**

Land (granted) or covered by application under the Land Act	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Surveyed Timber Lease, Licence, or Berth	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Indian Reserve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Government Reserve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Land District Boundary	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Provincial Estate Boundary	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Tree Farm Licence	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Municipality	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Water Supply Area	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Park	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Park less than 40 acres	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Campsite or Picnic Site	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Forest Service Lookout	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Settlement or Locality	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Post Office	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
School	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Hospital	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Mine	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Dike	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Historic Monument	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Mid Post	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Interprovincial Boundary and Monument	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

# MONKMAN PASS

## BRITISH COLUMBIA

Scale 1:250,000 or approximately 1 Inch to 4 Miles

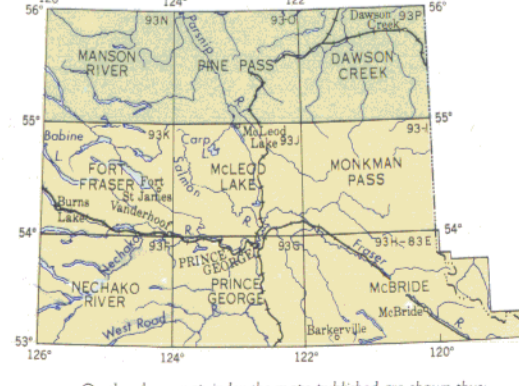


Magnetic Declination approximately 23°30' East at centre of sheet, 1967.  
 Decreasing approximately 2'38" annually.

Queen's Printer for British Columbia, Victoria ©

**REFERENCE**

Road, Hard Surface, All Weather	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Loose Surface, All Weather	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Loose Surface, Less than 2 lanes	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Private (Logging, Mining etc.)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Four Wheel Drive	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Trail	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Railway	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Main Telephone Line	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Main Electric Power Line	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Horizontal Control Station	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Contours (interval 500 feet)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Elevation in feet above mean sea-level	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Impassable Stream	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Swamp or Marsh	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Glacier or Icefield	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Spring	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Dam	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Customs Office	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Navigation Light	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Apron or Airstrip	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Anchorhole or Scuppers Anchorage	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12



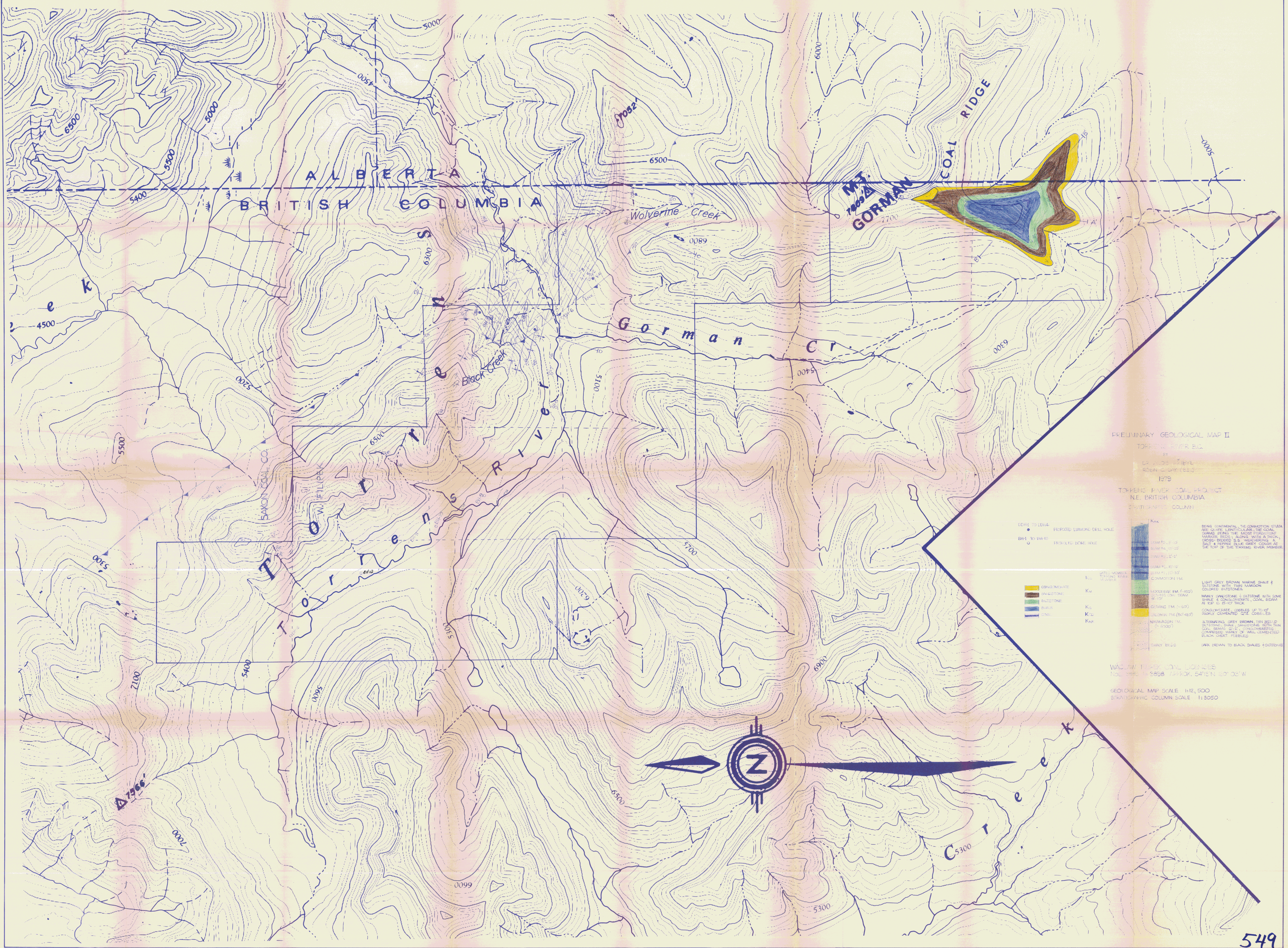
On the above map under the maps published are shown that:  
 With District for land status  
 Without  
 Land Commissioners' Offices are located in Prince George and Fraser Canyon.  
 Mineral Claims are not shown on this sheet.

**MONKMAN PASS, B.C.**  
**SHEET 931**  
 FIRST STATUS EDITION

**549**

PR-MT.GORHAN 79(2) A 71





ALBERTA  
BRITISH COLUMBIA

MT. GORMAN  
7700

COAL RIDGE

Gorman Cr.

Torrens River

PRELIMINARY GEOLOGICAL MAP II  
TORRENS RIVER B.C.  
BY  
DR. J. D. W. REEVE  
ROBERT GORMAN, 1879

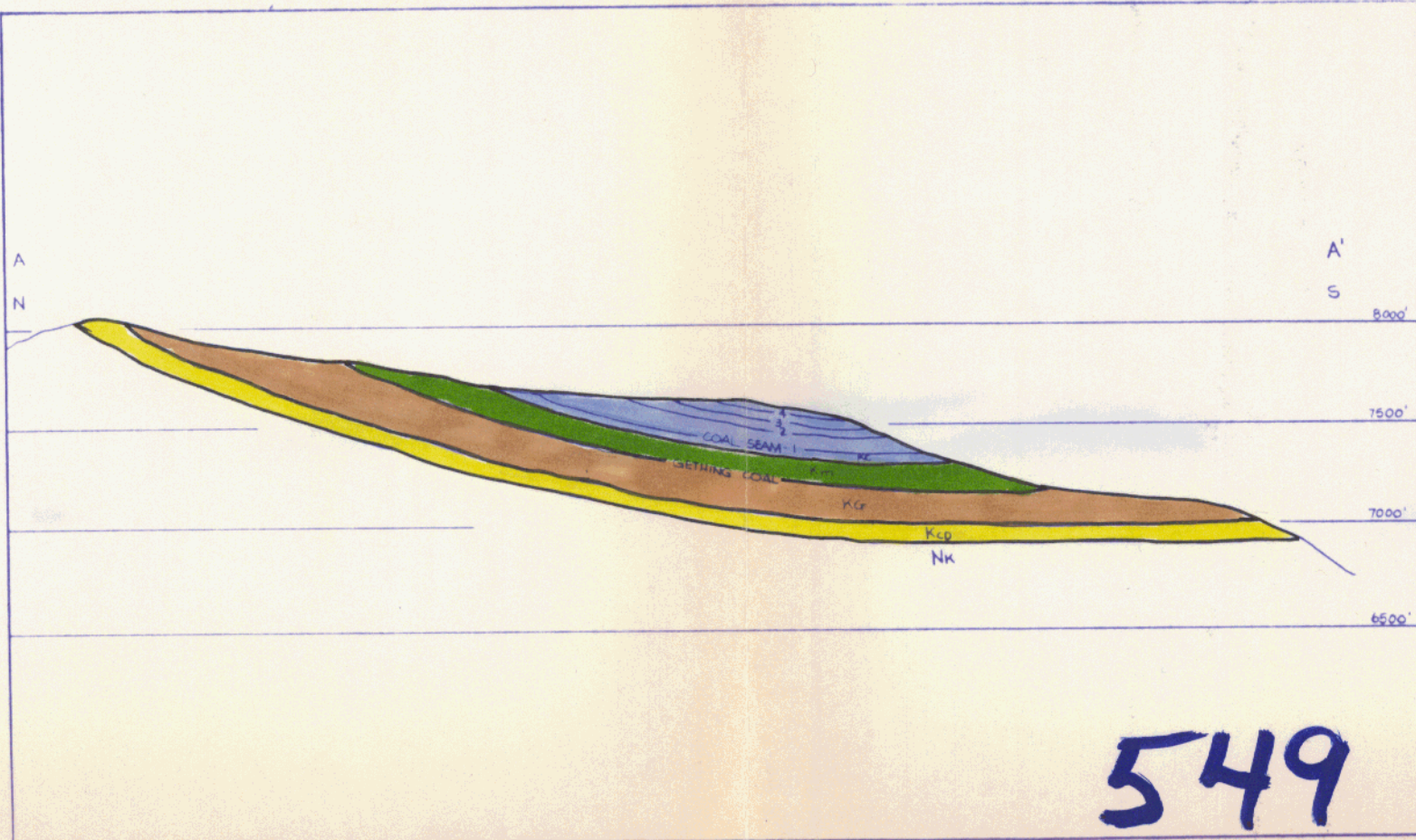
TORRENS RIVER COAL PROJECT  
N.E. BRITISH COLUMBIA  
STRATIGRAPHIC COLUMN

1000'	SHALE
900'	CONGLOMERATE
800'	SHALE
700'	CONGLOMERATE
600'	SHALE
500'	CONGLOMERATE
400'	SHALE
300'	CONGLOMERATE
200'	SHALE
100'	CONGLOMERATE
0'	SHALE

WAGLAW TRILITE LOCAL LICESSES  
1879-1880 (APPROX. 5410' N 10' 02' W)

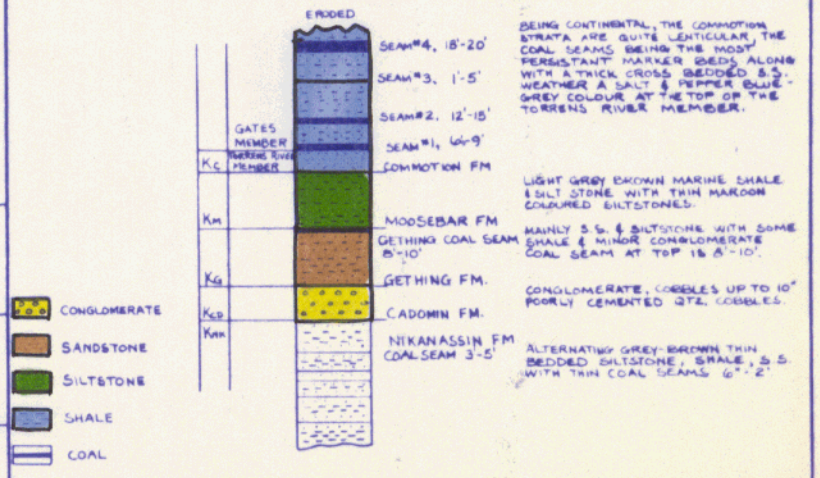
GEOLOGICAL MAP SCALE 1:12,500  
STRATIGRAPHIC COLUMN SCALE 1:5050





549

### COAL RIDGE N.E. BRITISH COLUMBIA STRATIGRAPHIC COLUMN

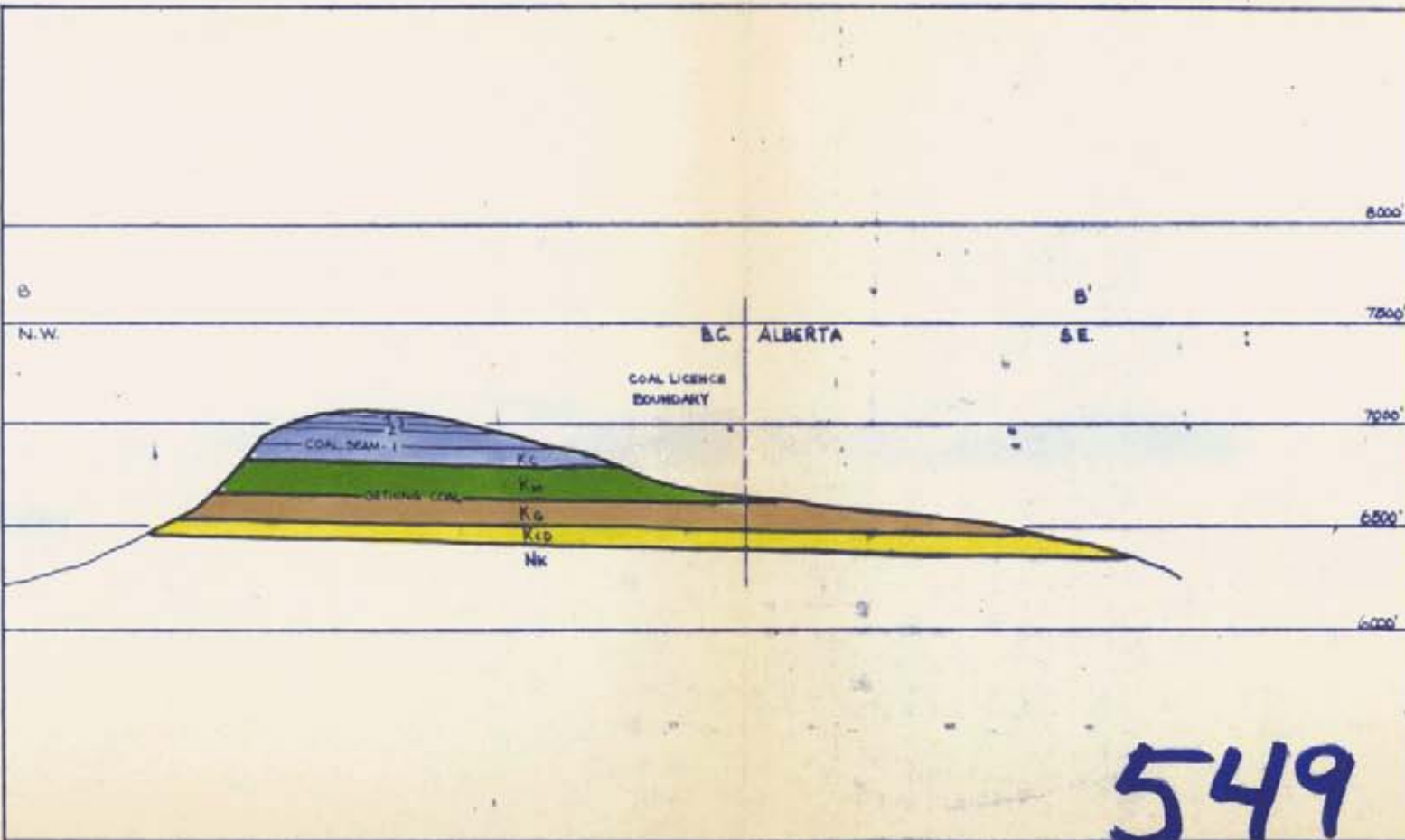


WACLAW FILIPEK COAL LICENCES  
NOS. 3889-3898 & \_\_\_\_\_

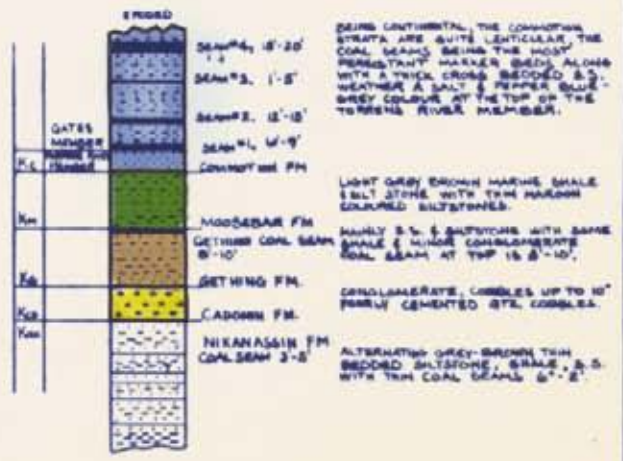
GEOLOGICAL CROSS SECTION A-A'

CROSS SECTION: VERTICAL & HORIZONTAL SCALE 1:12500  
STRATIGRAPHIC COLUMN VERTICAL SCALE 1:6100 (1cm=100')





### COAL RIDGE N.E. BRITISH COLUMBIA STRATIGRAPHIC COLUMN



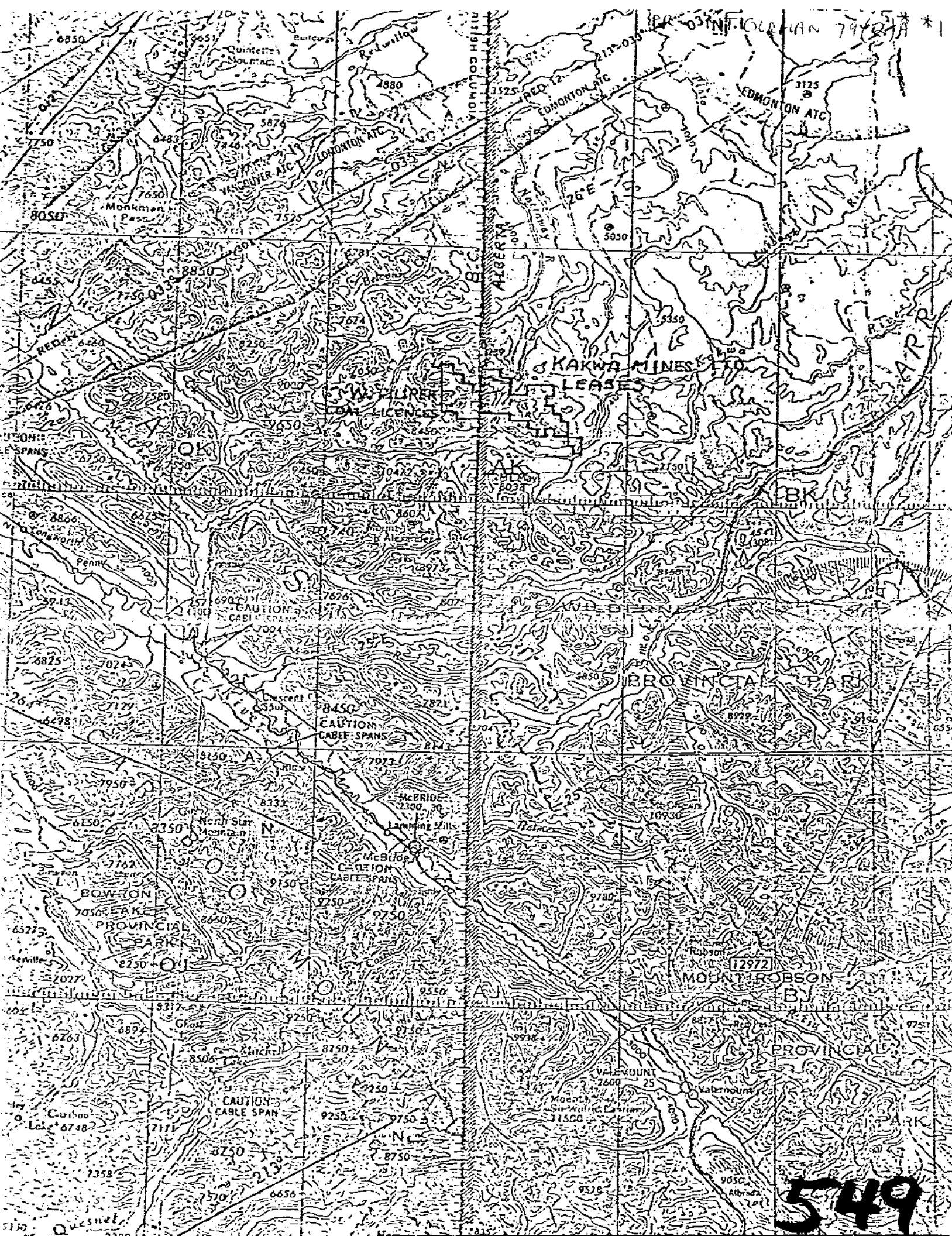
- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- SHALE
- COAL

WACLAW FILIPEK COAL LICENCES  
NOS. 3889-3898 & \_\_\_\_\_

GEOLOGICAL CROSS SECTION B-B'

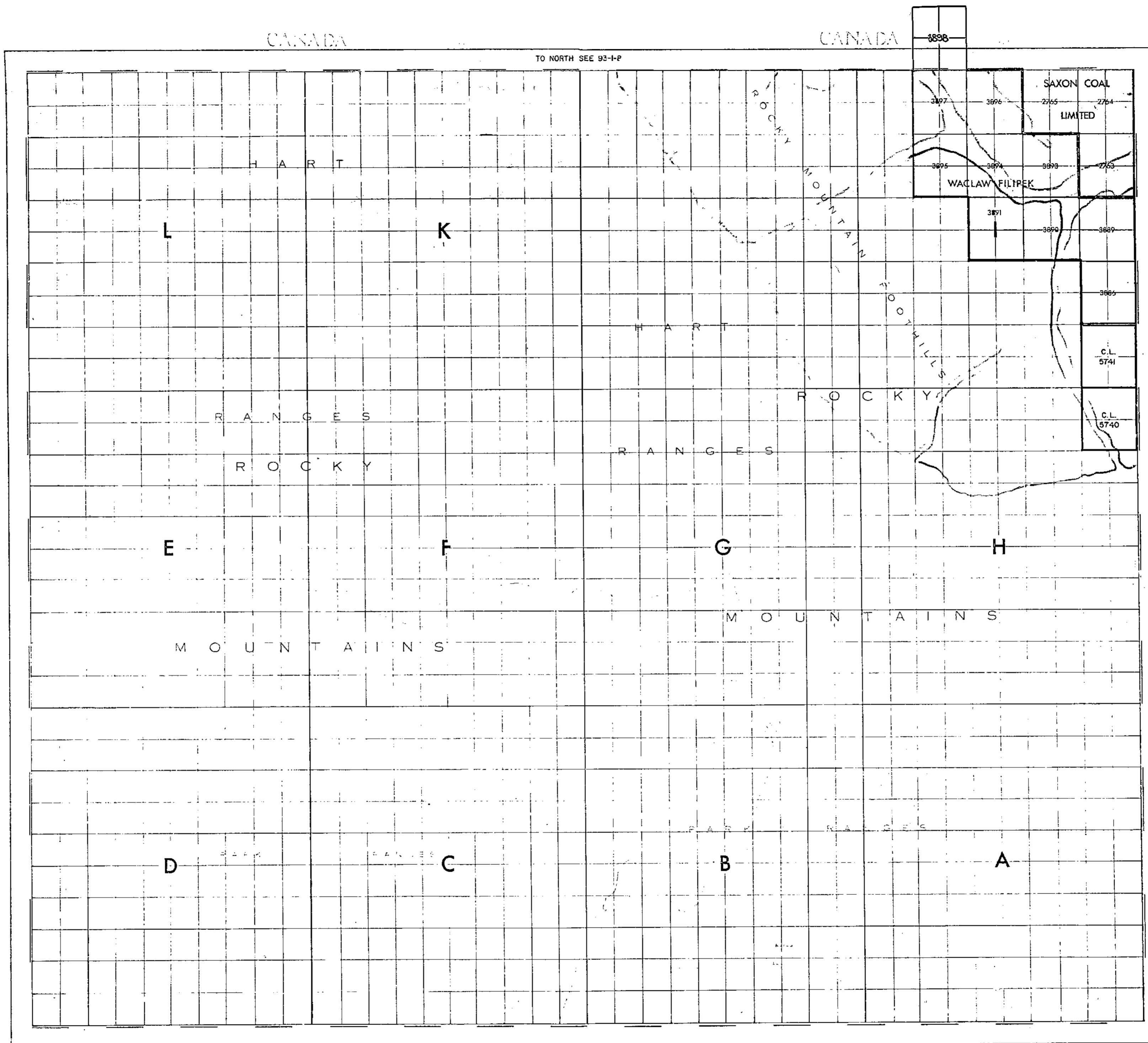
CROSS SECTION: VERTICAL & HORIZONTAL SCALE 1" = 2500'  
STRATIGRAPHIC COLUMN: VERTICAL SCALE 1" = 600' (1cm = 100')

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COAL 93-1-1



ACRE.	HECTARE.
186.78	75.59
186.82	75.61
186.86	75.62
186.90	75.64
186.94	75.65
187.01	75.68
187.05	75.70
187.08	75.71
187.12	75.73
187.16	75.74
187.19	75.76
187.22	75.77
187.26	75.78
187.30	75.80
187.34	75.82
187.37	75.83
187.41	75.84
187.45	75.86
187.49	75.88
187.52	75.89
187.56	75.91
187.60	75.92
187.64	75.94
187.68	75.95
187.72	75.97
187.75	75.98
187.79	76.00
187.83	76.01
187.87	76.03

1:50 000  
 DATE OF MICROFILM: 86-08-28

JARVIS LAKES  
 BRITISH COLUMBIA

LEGEND  
 [Symbol] [Description]

COAL TITLES REFERENCE MAP 93-1-1  
 DEPARTMENT OF MINES AND PETROLEUM RESOURCES, VICTORIA, B.C.  
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PR-MT-GORMAN 79(2)\*A\*

