

Geological Survey of Canada Commission Geologique du Canada

Open File 1736

UPDATE OF COAL INDEX FOR YUKON AND DISTRICT OF MACKENZIE, NORTHWEST TERRITORIES

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CONTENTS

- 1 Introduction
- 2 Summary of coal locations

Coal index

3 References

INTRODUCTION

This index is an update of GSC Open File 1115, 1985, and provides a summary of data, from all known coal occurrences in Yukon and the western mainland of Northwest Territories (District of Mackenzie). The list includes all outcrops, former mine sites, and subsurface information from boreholes as of 1987. No limit has been set on the thickness of seams to be reported. Although many coal occurrences have little or no economic significance, they may be of use for studies such as thermal maturation. The following information is given for each location:

- The area is subdivided into NTS Quadrangles and its contained Map areas. A specific occurrence is located as precisely as possible (Latitude and Longitude) together with a description of relevant topographical features. Each occurrence is given a MAP Number (see Figure 1 of this Open File; Figure 1 of OF 1115). Map numbers qualified with an "a" give updated information on existing locations in OF 1115).
- Type of Locality: most of the coal occurrences are known only from outcrop.

 Other categories include mine site, subsurface (either borehole or geophysical)

 or trenches cleared during an exploration program.
- Under "Name" the formal status and age are given for the coal-bearing strata.
- "The Nature of Seams stratigraphy" provides information on the physical nature of the coal and associated strata, seam thickness, environments of deposition, and tectonic features.
- Coal ranks are classified according to ASTM standards. Where analyses are available, these are quoted individually, or as a range of values where large amounts of data have been published. In most cases, results for analyses 'as Received' are quoted for proximate, sulphur and calorific values. Vitrinite reflectance data is also listed when available.

- Very few indications of reserves are available, but where present, are quoted in terms of the scheme outlined by Bielenstein et al. (1979) in Department of Energy, Mines and Resources Report ER79-9.
- Under "History of Exploration or Mining" a synopsis is given of the exploration and prospecting activities of mining companies, where companies have conducted geophysical surveys, drilling, trenching, or geological mapping. For mining, dates, production rates and uses are given.
- Cumulative references are listed by number in order of appearance.

CUMULATIVE SUMMARY OF COAL LOCATIONS

Numbers marked with an asterisk refer to updated locations in this Open File; those not marked are from Open File 1115.

Coal occurrences by rank:

- Lignite 4, 5a*, 11, 14, 15, 16, 19, 19a*, 20, 30, 30a*, 35, 36, 37, 38, 40, 53, 54, 55, 56, 57, 66, 67, 90*.
- Sub-bit. 1, 5, 5a*, 8, 9, 10, 12, 13, 17, 18, 33, 34, 39, 58, 59, 60, 61, 90*.
- hvb. 2, 3, 6, 7, 23, 28, 28a*, 29, 30, 31, 41, 41a*, 46, 49, 50, 54, 54a*, 70, 71, 72.
- lvb. 69.
- semi-anthracite and anthracite 21, 22?, 22a*, 62, 65, 73, 74.
- unknown 45, 45a*, 75*, 76*, 77*, 78*, 79*, 80*, 81*,
 82*, 83*, 84*, 85*, 86*, 87*, 88*, 89*.

Coal occurrences by age:

- Tertiary 4, 5, 5a*, 9, 10, 16, 20, 28, 28a*, 34, 35, 37, 38, 39, 40, 54, 55, 56, 57, 58, 59, 60, 61, 66, 67.
- Upper Cretaceous 1, 30, 30a*, 68, 70, 71, 72, 90*?.
- Lower Cretaceous 14, 15, 17, 18, 21, 22, 22a*, 23, 24, 25, 26, 27, 33, 42, 44, 46, 49, 53?, 54a*, 63, 64, 65, 69.
- Cretaceous (undivided) 8, 11, 12, 13, 19, 19a*, 29, 32.
- Jurassic 36, 41, 41a*, 43, 45, 45a*, 47, 48, 50, 62.
- Carboniferous 2, 3, 6, 7, 31, 73, 74.
- Lower Paleozoic 75*, 76*,
- unknown 51, 52, 77*, 78*, 79*, 80*, 81*, 82*, 83*, 84*,
 85*, 86*, 87*, 88*, 89*.

Coal occurrences for which analyses are available:

- 2, 3, 5a*, 7, 9, 10, 16, 17, 19, 19a*, 20, 21, 28, 28a*, 30, 30a*, 39, 48, 49, 56, 57, 58, 59, 60, 69, 71, 73, 74, 90*.

Coal mines:

- 22, 22a*, 33, 39, 46, 48, 49, 50, 55, 56, 58, 59, 71.

Reserves available:

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MAP NO:5a

NTS MAP SHEET:95D/11,14
LATITUDE: 60 40'N
LONGITUDE:127 10'W
REGIONYUKON
LOCATION-TYPE:Subsurface
LOCATION DESCRIPTION:
5 boreholes along Rock River, east of Rock River Fault.
See Map No. 5, Open File 1115.

NAME:Rock River Basin, Tertiary.
NATURE OF SEAMS, STRATIGRAPHY:
exposure limited to few tributaries, Gravity data indicate up to 1100 m
Tertiary. Muddy lignite & woody lignite interbedded with mudstone,
sandstone, representing vertically aggrading fluvial setting. Including

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swamp, marsh, levee, splay, few paleosols. Traces of amber. In general high proportion of wetland deposits.

RANK: Lignite A-Subbituminous C. Avg. 6645 BTU/lb. (15.45 Mj/Kg).

RESERVES: 56 million tonnes within 80 m of surface near boreholes 1 & 2.

HISTORY OF EXPLORATION OR MINING: Extensive glaciolacustrine cover. 5 boreholes drilled by Sulpetro Minerals Ltd. 1981. High lateral facies variabilitity will necessitate extensive drilling. CEL 352 to 355, as of 1984.. LEASES:

REFERENCES: 74, 75, 76, 79, 83.

MAP NO:22a

NTS MAP SHEET: 105D/6
LATITUDE: 60 31'N
LONGITUDE: 135 15'W
REGIONYUKON
LOCATION-TYPE: Outcrop, Mine
LOCATION DESCRIPTION:
See Map No.22, Open File 1115.

NAME: NATURE OF SEAMS, STRATIGRAPHY:

FRI, DEC 11, 1987, 11:14 AM

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: Whitehorse Coal Corp. CML 2989-2991. Also holds CEL 358 in northeast quadrant of 105D/6, Road Access, 6 trenches and mapping completed by mid-August, 1983. LEASES:

REFERENCES: 84, 86 RECORD #;

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NTS QUADRANGLE: 105

MAP NO:28a

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NTS MAP SHEET: 105F/15
LATITUDE: 61 58'N
LONGITUDE: 132 35'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
See Map No.28, Open File 1115.

FRI, DEC 11, 1987, 11:14 AM

NAME: NATURE OF SEAMS, STRATIGRAPHY:

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: Cyprus Anvil Corp. holds CML 2984-2986.

LEASES:

REFERENCES: 22, 30, 87.

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- Artistan (1981)

455-2525-250

MAP NO: 19a

NTS MAP SHEET: 961/4 LATITUDE: 66 10'N LONGITUDE: 120 50'W

a distribution of the

REGIONDISTRICT OF Mackenzie LOCATION-TYPE: Outcrop LOCATION DESCRIPTION: Seven outcrop areas indicated along shore and 0.8 km inland (Kidd, Fig. 4)

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NAME: NATURE OF SEAMS, STRATIGRAPHY: See Map No. 19, open File 1115.

Lignite. 6 samples as rec'd. Lignite. 6 samples as rec'd. Moisture = 37.8-50.4; Ash = 4.6-22.6; Moisture = 20.2-24.1; Fixed carbon = 18.9-24.8; volatiles = 20.2-24.1; Fixed carbon = 18.9-24.8; sulphur = 0.2-0.4; Cal/gm = 2340-3010; BTU/1b = 4210-5410.

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RESERVES:

HISTORY OF EXPLORATION OR MINING: Permafrost noted less than 1 m below surface.

LEASES:

REFERENCES: 21, 93.

MAP NO:30a

NTS MAP SHEET: 106E
LATITUDE: 65 15'N approx
LONGITUDE: 135 00'W approx
REGIONYUKON
LOCATION-TYPE: Outcrop, subsurface
LOCATION DESCRIPTION:
Bonnet Plume Basin.

FRI, DEC 11, 1987, 11:14 AM

NAME:Bonnet Plume Fm. NATURE OF SEAMS, STRATIGRAPHY: See Map No 30, Open File 1115.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: CEL covering much of the map sheet taken out by Aberford Resouces Ltd. as of 1984. Formerly with Pan Ocean Oil Ltd.

LEASES:

MAP NO:41a

NTS MAP SHEET: 115H/8
LATITUDE: 61 21'N
LONGITUDE: 136 05'W
REGIONYUKON
LOCATION-TYPE: Outcrop, trench, subsurface
LOCATION DESCRIPTION:
See Map No, 41, Open File 1115.

FRI, DEC 11, 1987, 11:14 AM

NAME: LaBerge Group, Jurassic NATURE OF SEAMS, STRATIGRAPHY:

RANK:

RESERVES: Arjay Kirker Resources, CML 2960,61,62. HISTORY OF EXPLORATION OR MINING:

LEASES:

MAP NO: 45a

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NTS MAP SHEET: 1151/1
LATITUDE: 62 04'N
LONGITUDE: 136 15'W
REGIONYUKON
LOCATION-TYPE: Subsurface
LOCATION DESCRIPTION:
1.6 km southeast of Carmacks, south of Yukon River.

NAME: LaBerge Group, Jurassic. NATURE OF SEAMS, STRATIGRAPHY: See Map No.45, Open File 1115.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: Cyprus Anvil Mining Leases expanded in 1983, 1984. Teslin Exploration Ltd. took out CML's.

LEASES:

REFERENCES: 8,9,46,80,81.

Labolite.

MAP NO:54a

NTS MAP SHEET: 1150/11 LATITUDE: 63 42'N approx LONGITUDE: 139 10'W approx REGIONYukon LOCATION-TYPE:Outcrop, subsurface LOCATION DESCRIPTION: 6 boreholes and measured sections adjacent McKinnon Creek, south of Indian River.

NAME: Earlier considered Tertiary, re-evaluated as Albian.
NATURE OF SEAMS, STRATIGRAPHY:
Interbedded sandstone (70%), conglomerate (17%); silstone (11%);
coal (2%). Coal beds 0.1-1.5 m thick. Fluvial-deltaic setting. Coeval
with Bonnet Plume Formation, Tantalus Formation, Keno Hill Quartzite (77)

FRI, DEC 11, 1987, 11:15 AM Associated with gold-bearing conglomerates (up to 3.4 g/t)

RANK: Subbituminous

RESERVES:

HISTORY OF EXPLORATION OR MINING: Ruby Creek Coal Mine (Britannia Coal Mine) LEASES:

rK4, DEC 11, 1907, 11:15 AM

RECORD #:

NTS QUADRANGLE: 95

MAP NO: 75

NTS MAP SHEET: 95C/5 LATITUDE: 60 29'N LONGITUDE: 125 56'W

REGIONYUKON LOCATION-TYPE:Outcrop LOCATION DESCRIPTION: Beaver River, 1.5 km strip, Mineral claim.

NAME: ?Road River Fm. Ordovician-Devonian.
NATURE OF SEAMS, STRATIGRAPHY:
Minor coaly seams ...in a 600 m sequence of graptolitic shale, cherty shale, dolomitic siltstone and silty limestone. Cf.Map No. 76.

RANK:

RESERVES: TRANZ property, claim staked 1982 by Jv between Chevron Canada, Enterprise Expl. Ltd & SMD Mining Co. Ltd. for base metals. HISTORY OF EXPLORATION OR MINING:

LEASES:

FRL, UEG 11, 1701, 11:16 MI

RECORD #;

NTS QUADRANGLE: 95

MAP NO: 76

NTS MAP SHEET:95C/13
LATITUDE: 60 49'N
LONGITUDE:125 47'W
REGIONYUKON
LOCATION-TYPE:Outcrop
LOCATION DESCRIPTION:
Near NWT border, 180 km northeast of Watson Lake.

NAME:Road River Fm. Ordovician-Devonian.
NATURE OF SEAMS, STRATIGRAPHY:
Minor coaly beds in a sequence of graptolitic shale, cherty shale,
dolomitic siltstone, silty limestone, and a volcano-sedimentary unit.
cf. Map No. 75.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: MARS property. Claim staked 1982 by JV between Chevron Canada, Enterprise Expl. Ltd. SMD Mining Co. Ltd. to examine exhalite unit.

LEASES:

THA, MEL 11, 1781, 11:18 AM

RECORD #:

NTS QUADRANGLE: 116

MAP NO:77

4. 1

NTS MAP SHEET:116B/16
LATITUDE: 64 51'N
LONGITUDE:138 24'W
REGIONYUKON
LOCATION-TYPE:Presumed outcrop
LOCATION DESCRIPTION:
Blackstone River, about 2 km west of confluence.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence in unmineralized target.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: Blackstone Property.

LEASES:

REFERENCES: 82.

risation.

MAP NO: 78

NTS MAP SHEET: 1168/5 LATITUDE: 64 16'N LONGITUDE: 139 32'W REGIONYUKON

LOCATION-TYPE:Presumed outcrop LOCATION DESCRIPTION: Tributary of Chandindu River, 3 km east of Yukon River.

FRI, DEC 11, 1987, 11:16 AM

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence along placer lease.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: JEROME property along placer lease.

LEASES:

TRE, DEC 11, 1701, 11:10 AT

RECORD #:

NTS QUADRANGLE: 116

MAP NO: 79

NTS MAP SHEET: 116C/9 LATITUDE: 64 32'N LONGITUDE: 140 40'W

REGIONYUKON
LOCATION-TYPE:Outcrop
LOCATION DESCRIPTION:
5 km northeast of Yukon River, along tote trail.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted upstream of placer lease (Ja., 1984).

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: LEDUC property

LEASES:

MAP NO:80

NTS MAP SHEET: 116B/5
LATITUDE: 64 19'N
LONGITUDE: 139 40'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
Tributary 4 km north of Chandindu River.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

FRI, DEC 11, 1987, 11:16 AM

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: BARETTE property

LEASES:

MAP NO:81

NTS MAP SHEET: 116B/5
LATITUDE: 64 17'N
LONGITUDE: 139 39'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
Chandindu River, along placer lease.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

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RESERVES:

HISTORY OF EXPLORATION OR MINING: THANE property.

LEASES:

MAP NO:82

NTS MAP SHEET: 116C/8
LATITUDE: 64 28'N
LONGITUDE: 140 12'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
Tributary of Coal Creek, 12 km west of Yukon River.

FRI, DEC 11, 1987, 11:17 AM

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: CHAIN property

LEASES:

MAP NO:83

NTS MAP SHEET:116C/9 LATITUDE: 64 33'N LONGITUDE:140 29'W REGIONYUKON LOCATION-TYPE:Outcrop

LOCATION-TYPE:Outcrop LOCATION DESCRIPTION: 3 km northwest of Yukon River. Adjacent CLIFF property, Cliff Creek.

FRI, DEC 11, 1987, 11:16 AM

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: JEPHSON property, See Map No. 59.

LEASES:

TRA, DEC 11, 1701, 11:18 AM

RECORD #;

NTS QUADRANGLE: 106

MAP NO:84

NTS MAP SHEET: 106K/5
LATITUDE: 66 28'N
LONGITUDE: 133 58'W approx
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:

Peel River, about 15 km west of NUT border.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: CARIBOU BORN property

LEASES:

FRI, NEL 11, 1781, 11:18 AM

RECORD #;

NTS QUADRANGLE: 105

MAP NO:85

NTS MAP SHEET: 105D/11
LATITUDE: 60 32'N
LONGITUDE: 135 18'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
5 km south-southeast of Fish Lake.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: FISH LAKE property

LEASES:

MAP NO:86

NTS MAP SHEET:105D/6 LATITUDE: 60 29'N LONGITUDE:135 13'W REGIONYUKON LOCATION-TYPE:Outcrop LOCATION DESCRIPTION: 8 km south of Fish Lake.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

From condition and account of the

FRI, DEC 11, 1987, 11:18 AM

RESERVES:

HISTORY OF EXPLORATION OR MINING: COAL RIDGE property

LEASES:

TKA, UEC 11, 1901, 11:18 AM

RECORD #:

NTS QUADRANGLE: 105

MAP NO:87

NTS MAP SHEET: 105J/4
LATITUDE: 62 02'N
LONGITUDE: 131 47'W
REGIONYUKON
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
Small tributary immediately south of Ross River.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted

RANK:

RESERVES:

HISTORY OF EXPLORATION OR MINING: CAROLYN property

LEASES:

TKA, UEC 11, 1201, 11:16 AM

RECORD #;

NTS QUADRANGLE: 105

MAP NO:88

NTS QUADRANGLE: 105

NTS MAP SHEET: 105L/14

L'ATITUDE: 62 53'N

LONGITUDE: 135 24'W

REGIONYUKON

LOCATION-TYPE: Outcrop

LOCATION DESCRIPTION:

Macmillan River, 5 km east of confluence with Kalzas River.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

的一个时间,这个时间,他们也不是一个时间,我们是一个时间,他们也是一个时间,这个时间,这个时间,我们也是一个时间,我们也是一个时间,他们也是一个时间,他们也是一

RESERVES:

HISTORY OF EXPLORATION OR MINING: DUO property

LEASES:

FRI, DEC 11, 1701, 11:17 AM

RECORD #;

NTS QUADRANGLE: 115

MAP NO:89

NTS MAP SHEET:1150/12 LATITUDE: 63 34'N LONGITUDE:139 46'W REGIONYUKON

LOCATION-TYPE:Outcrop LOCATION DESCRIPTION: Yukon River at confluence with Sixty Mile River, south side.

NAME: NATURE OF SEAMS, STRATIGRAPHY: Occurrence noted.

RANK:

The second of th

RESERVES:

HISTORY OF EXPLORATION OR MINING: CRUIKSHANK Property

LEASES:

MAP NO: 91

The second secon

NTS MAP SHEET: 115G/6 LATITUDE: 61,17'N LONGITUDE: 139,23'W REGIONYUKON LOCATION-TYPE: Outcrop LOCATION DESCRIPTION: Fork of Berry Creek,

LOCATION DESCRIPTION: Fork of Berry Creek, a small tributary of Badlands Creek, opposite Amphitheatre Mt., 4.5 miles direct from its junction with Duke River.

NAME:Unnamed, Paleocene, Map Unit 10 of Bostock (97)
NATURE OF SEAMS, STRATIGRAPHY:
Three seams 1.5, 1.2 & 1.0 m thick, over stratigraphic thickness of 5.5m
Interbedded with shale, clay.

TUE, DEC 22, 1987, 11:34 AM

RANK: Subbituminous C. Analyses as rec'd (also dry) Analyses as rec'd (also dry) Moisture = 22.6, 22.3, 20.6; Ash = 10.1, 13.7, 27.6; Volatiles = 35.9, 32.3, 27.7; Fixed Carbon = 31.4, 31.7, 24.1; Volatiles = 35.9, 32.3, 27.7; Fixed Carbon = 80.65, 74.85, 57.50.

RESERVES:

HISTORY OF EXPLORATION OR MINING: Sampled by J.E.Muller, 1950. Coal from nearby localities used for heating bty local residents; see Map # 39, 40.

LEASES:

PRI, DEC 11, 1701, 11:19 AM

RECORD #:

NTS QUADRANGLE: 96

NTS MAP SHEET: 96H
LATITUDE: 66 00'N approx
LONGITUDE: 122 20'W approx
REGIONDistrict of Mackenzie
LOCATION-TYPE: Outcrop
LOCATION DESCRIPTION:
Deerpass Bay, general location only.

NAME: NATURE OF SEAMS, STRATIGRAPHY: 2 thick seams, similar to those reported at Douglas Bay (Map No.19). 9.1 m and 3.7 m thick. The latter seam consists of highly contorted coal and clay.

RANK: RANK:
Lignite - subbituminous (94)
9. Im seam; as rec'd air dr, dry
Moisture 32.8 17.33 Volatiles 31.87 39.21 47.4:
Ash 4.64 5.71 6.91
Fixed C 30.69 37.75 45.66
Sulphur 0.25 0.31 0.37
BTU/1b 7160 8808 10656 47.43 6.91 45.66 0.37 10654 Sulphur BTU/16

air dr. 11.37 37.43 13.86 37.34 3.7 m seam as rec'd. dry 28.89 30.03 11.12 29.96 0.38 6785 42.23 15.63 42.14 0.53 9541 8457

MAP NO: 90

RESERVES:

4.5.00

HISTORY OF EXPLORATION OR MINING:

LEASES: