



Occurrence Details

Occurrence Number: 115I 002

Occurrence Name: Tantalus Mine

Occurrence Type: Hard-rock

Status: Deposit

Date printed: 12/16/2025 7:48:48 AM

General Information

Primary Commodities: coal

Deposit Type(s): Coal

Location(s): 62°5'36" N - -136°15'50" W

NTS Mapsheet(s): 115I01

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as coal lease 7623 in Jun/03 by C.D. Miller, who mined about 2722 tonnes in 1905. Later acquired by Five Fingers Coal CL, which completed 548.6 m of drifting in two adits and mined more than 4536 tonnes annually in 1907-09 with room and pillar methods. Production continued at reduced rates until 1922. The adits are now caved and the mine is burning underground (possibly caused by a forest fire in 1950's). The old leases were acquired by Anvil Mg Corp. L about 1966 and the adjoining area to the east was acquired as Coal Exploration Licence 17 in Sep/70 by Teslin EL.

Capsule Geology

Three coal seams, striking southeast and dipping about 30° east, occur in the Upper Jurassic Tantalus Formation but only the two lower were developed. These are separated by 1.2 m of rock. Analyses of each seam by the Department of Mines in 1907 was:

Bottom (2.3 m) Middle (2.0 m) Top (0.9 m)
Water (%) 0.75 0.76 0.82
Volatile (%) 23.61 24.74 25.12
Fixed Carbon (%) 55.21 58.60 66.03
Ash (%) 20.43 15.90 8.03
Coke (%) 75.64 74.56 74.06

Washed coal from the middle seam was stated to be a possible commercial coke and the bottom seam was stated to be a good commercial coke. Gross calorific value is about 10 100 G.BTU.

References

AURUM GEOLOGICAL CONSULTANTS INC., 1994. Yukon Coal Inventory 1994. Energy and Mines Branch, Economic Development, Yukon Territorial Government, 169 p.

EMJ, 28 Apr/06.

GEOLOGICAL SURVEY OF CANADA Memoir 5, p. 59-63.

GEOLOGICAL SURVEY OF CANADA Memoir 189, p. 58-59.

GEOLOGICAL SURVEY OF CANADA Summary Report, 1907, p. 21-22.

RESEARCH COUNCIL OF ALBERTA Report 66-6, p. 16.

Work History

Date	Work Type	Comment
12/31/1970	Other	
12/31/1966	Other	
12/31/1922	Other	Sporadic production between 1910 and 1922.
12/31/1909	Other	Carried out between 1907 and 1909 by Five Fingers Coal Company Ltd.
12/31/1909	Other	Carried out between 1907 and 1909 by Five Fingers Coal Company Ltd.
12/31/1905	Other	
12/31/1903	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097197	2017	Memo-Division Mountain Coal Project, Yukon Territory	Property Evaluation - Other		
090815	1979	Carmacks South Coal Project Report on 1979 1980 Field Work	Rotary - Drilling, Rock - Geochemistry, Bedrock Mapping - Geology, Mechanical - Trenching	32	3365
092031	1977	Report on Preliminary Evaluation Carmacks Coal Project	Property Evaluation - Other, Data Compilation - Pre-existing Data		
092032	1977	Report on 1977 Reconnaissance of Yukon Coal Occurrences, Report on 1977 Field Program Carmacks Coal Project	Orthophoto - Airphotography, Rotary - Drilling, Drill Cuttings - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, IP - Ground Geophysics, Resistivity - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Line Cutting - Other	47	3476.85
019920	1971	1971 Report on Explorations for Coal in the Carmacks and Nordenskiöld Areas	All Weather Road - Development, Surface, Rock - Geochemistry, IP - Ground Geophysics, Prospecting - Other		
060582	1971	[Report on Explorations in Nordenskiöld and Carmacks Area]	Diamond - Drilling, Rock - Geochemistry, Detailed Bedrock Mapping - Geology	1	94.50
060897	1970	Exploration Activities of Norman H. Ursel Associates Ltd.	Rock - Geochemistry, Gamma-ray Spectrometry - Ground Geophysics, Prospecting - Other, Handblast - Trenching		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC0063 63	Correspondence Re: Teslin Explorations coal leases at Carmacks		Property File Collection	Miscellaneous Company Documents
ARMC0063 65	Re: Visit to Carmacks Coal properties - Tantalus and Tantalus Butte		Property File Collection	Miscellaneous Company Documents
ARMC0063 66	Claim map - Schedule "B"		Property File Collection	Geoscience Map (General)
ARMC0063 67	Correspondence Re: Site tour of Carmacks Coal		Property File Collection	Miscellaneous Company Documents
ARMC0063 68	Correspondence Re: Carmacks rehabilitation program - 1992		Property File Collection	Miscellaneous Company Documents
ARMC0063 69	Claim map - Quarrying leases, coal mining leases, and lots and parcels		Property File Collection	Geoscience Map (General)
ARMC0063 72	Claim map showing Yukon River and coal mining lease		Property File Collection	Geoscience Map (General)
ARMC0063 73	Exploration drift map - 1972 - Tantalus Butte coal mine		Property File Collection	Geoscience Map (General)
ARMC0063 74	Correspondence Re: Curragh Resources Inc. and Little Salmon - Carmacks Indian Band		Property File Collection	Miscellaneous Company Documents
ARMC0063 87	Analysis of coal, air dried basis - Carmacks Coal		Property File Collection	Report
ARMC0035 91	Summary of exploration and development work - 1978 - Various claims		Property File Collection	Report
ARMC0035 96	Summary of exploration and development work - Tantalus Butte Mine		Property File Collection	Report
ARMC0097 11	Geological cross sections - Carmacks Coal project		Property File Collection	Geoscience Map (General)
ARMC0083 13	Plan map showing underground control survey - Tantalus Butte coal mine		Property File Collection	Geoscience Map (General)
ARMC0085 04	Report on geophysical tests on Carmacks coal deposit		Property File Collection	Report
ARMC0082 14	Geological map of open pit area - Carmacks coal project- Tantalus Butte - Map 2		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC0082 15	1981 proposed mine plan map - Carmacks coal properties - Tantalus Butte mine - Map 1		Property File Collection	Geoscience Map (General)
ARMC0082 16	Cross-section no. 614.650 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 17	Cross-section no. 613.000N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 18	Cross-section no. - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 19	Cross-section no. 613.250 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 20	Cross-section no. 613.200N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082			Property File	

ARMC0082 21	Cross-section no. 613.350N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 22	Cross-section no. 613.300N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 23	Cross-section no. 613.450N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 24	Cross-section no. 613.400N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 25	Cross-section no. 613.550 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 26	Cross-section no. 613.650 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 27	Cross-section no. 613.500N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 28	Cross-section no. 613.600N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 29	Cross-section no. 613.700N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 30	Cross-section no. 613.800N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 31	Cross-section no. 613.900N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 32	Cross-section no. 614.00N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 34	Cross-section no. 614.200N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 35	Cross-section no. 613.700N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 36	Cross-section no. 613.750N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 37	Cross-section no. 613.850N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 38	Cross-section no. 613.950N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 39	Cross-section no. 614.050N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 40	Cross-section no. 614.150N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 41	Cross-section no. 614.300N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 42	Cross-section no. 614.400N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 43	Cross-section no. 614.500N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 44	Cross-section no. 614.600N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 45	Cross-section no. 614.250N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 46	Cross-section no. 614.350N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 47	Cross-section no. 614.450N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 48	Cross-section no. 614.550N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 49	Geology map of Tantalus Basin west half - Appendix 1		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC0082 50	Plan map showing surface and underground - Tantalus Butte mine - Drawing no. 175		Property File Collection	Geoscience Map (General)
ARMC0082 51	Geological map of open pit area - Tantalus Butte coal mine - Map 3		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC0082 52	Geological map of open pit area - 2 of 2 - Carmacks coal project- Tantalus Butte - Map 3		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC0082 53	Carmacks topographic map		Property File Collection	Geoscience Map (General)
ARMC0082 54	V.L.F. electromagnetic survey map - Contours of Fraser filtered in phase - Carmacks coal project		Property File Collection	Geophysical Map
ARMC0082 55	Reconnaissance map - Pencil manuscript - Sheet 1 of 1 - 76-67		Property File Collection	Geoscience Map (General)

ARMC008258	Composite section map showing working area - underground plans - Tantalus Butte coal mine - Carmacks coal - Drawing no. WB 172A		Property File Collection	Geoscience Map (General)
ARMC008259	Composite plan map - Tantalus Butte mine - Drawing no. 171		Property File Collection	Geoscience Map (General)
ARMC008260	Vertical N-S long. section map - Tantalus Butte mine - Drawing no. 172		Property File Collection	Geoscience Map (General)
ARMC008292	Carmacks extension map - 115I-6 - Job No. 80-157		Property File Collection	Geoscience Map (General)
ARMC008293	Open pit area map - 1977 - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008294	Topographic plan map - Tantalus Butte coal mine - Carmacks		Property File Collection	Geoscience Map (General)
ARMC008305	Reconnaissance map - pencil manuscript - Sheet 1 of 2 - 76-67 - Carmacks		Property File Collection	Geoscience Map (General)
ARMC008306	Reconnaissance map - pencil manuscript - Sheet 2 of 2 - 76-67 - Carmacks		Property File Collection	Geoscience Map (General)
ARMC008307	Carmacks topographic map - Job No. 77-114		Property File Collection	Geoscience Map (General)
ARMC008308	Preliminary plan map of Carmacks coal mine - Surface lots		Property File Collection	Geoscience Map (General)
ARMC008309	Reconnaissance map - Pencil manuscript - Drawing no. 72-210 - Tantalus Butte coal mine - Carmacks		Property File Collection	Geoscience Map (General)
ARMC008310	Geology map of Carmacks coal lease area, Yukon - Map no. 1		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC008311	Plan map of survey of lots 23 and 24, Group 10 - Carmacks		Property File Collection	Geoscience Map (General)
ARMC008312	Field notes of resurvey of certain boundaries of lots 23 and 24 - Group 10, Carmacks - Drawing #52087		Property File Collection	Miscellaneous Company Documents
ARMC008233	Cross-section no. 614.100N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008314	Map - Coal leases in Carmacks area - Map No. 2		Property File Collection	Geoscience Map (General)
ARMC008315	Map 1 - Fall 1989 On-site inspection safety/reclamation - Carmacks Coal properties		Property File Collection	Geoscience Map (General)
ARMC008316	Plan map showing coal mining leases - Carmacks area		Property File Collection	Geoscience Map (General)
ARMC008257	Composite plan map of working area - Tantalus Butte coal mine - Drawing no. WB 171A		Property File Collection	Geoscience Map (General)
ARMC008692	Correspondence Re: Carmack coal leases - Geophysics		Property File Collection	Miscellaneous Company Documents
ARMC008694	Correspondence Re: Carmacks coal - geophysical response		Property File Collection	Miscellaneous Company Documents
ARMC008615	Report on geophysical tests on Carmacks coal deposit		Property File Collection	Report
ARMC007839	Geological map of open pit area - Tantalus Butte coal mine - Carmacks		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC007842	Electromagnetic survey map - Contours of Fraser filtered in phase readings - Carmacks coal project		Property File Collection	Geophysical Map
ARMC007843	Electromagnetic survey map - profiles of in phase and quadrature readings - Carmacks coal project		Property File Collection	Geophysical Map
ARMC007844	Map 1 - 1981 proposed mine plan - Tantalus Butte mine		Property File Collection	Geoscience Map (General)
ARMC018569	Field notes - 1977 - Carmacks		Property File Collection	Miscellaneous Company Documents
ARMC018570	Field notes - 1977 drill logs - Carmacks Coal		Property File Collection	Miscellaneous Company Documents
ARMC018571	Field notes - 1976 - Carmacks		Property File Collection	Miscellaneous Company Documents
ARMC018572	Field notes - 1977 - Carmacks		Property File Collection	Miscellaneous Company Documents
ARMC018599	Field notes - Carmacks		Property File Collection	Miscellaneous Company Documents
ARMC020328	Plan and field notes of survey of Lot 10-1 Group 10 and access road		Property File Collection	Geoscience Map (General)
ARMC020332	Claim map - Sheet 115-I-1 - Carmacks - Carmacks coal leases		Property File Collection	Geoscience Map (General)
ARMC020334	Claim map - Sheet 115-I-1 - Carmacks coal leases		Property File Collection	Geoscience Map (General)

