



Occurrence Details

Occurrence Number: 115I 001
Occurrence Name: South Tantalus
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 12/16/2025 7:47:45 AM

General Information

Primary Commodities: coal
Deposit Type(s): Coal
Location(s): 62°4'49" N - -136°15'10" W
NTS Mapsheet(s): 115I01
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

A coal seam was exposed in two bulldozer trenches by Anvil Mg Corp L in Aug/66 on Lease 2949 staked earlier in the year. The discovery was made from geological projections from the main Tantalus deposit.
The adjoining area to the east was acquired in Sep/70 as Coal Exploration Licence 17 by Teslin EL, which did surface studies in 1970-71, drilled one 94.5 m hole in 1971 and one 73.2 m hole in 1973, and staked four coal leases in Nov/73.
The Anvil leases were transferred in 1975 to Cyprus Anvil Mg Corp, which optioned the Teslin EL leases and added five more leases to the southeast and explored with mapping and 6 holes (1524 m) in 1976, geophysical surveys in 1977, and 32 holes (3048 m) in 1979.
Control of Cyprus Anvil was sold to Hudson's Bay O & GL and subsequently to Dome Pet L in 1981. Dome's interest was sold in 1985 to Curragh Res L.
Acquired as Coal License CYW0062 in Sep/2003 by Archer, Cathro and Associates (1981) Ltd.

Capsule Geology

On the Anvil leases, a 9 m wide seam in the Upper Jurassic Tantalus formation strikes north-south and dips 60° east. An analysis by the Department of Mines showed the coal is non-coking with a dry composition of 14.8% ash, 26.0% volatile and 59.2% fixed carbon.
The 1973 Teslin drill hole cut 3.2 m of coal about 1200 m southeast of the Anvil trenches. The 1976 and 1979 drilling was confined to this southerly zone, where an inferred open pitable resource of 780 633 tonnes of High Volatile B Bituminous to meta-anthracite ranked coal was outlined in a shallow syncline with a stripping ratio of 10.7:1. About 900 m of strike length was tested to depth. Unfortunately, the coal proved to be of poor quality due to a high ash content, which was attributed to thermal alteration associated with felsic volcanics and/sills locally present within the sequence.

References

AURUM GEOLOGICAL CONSULTANTS INC., 1994. Yukon Coal Inventory 1994. Energy and Mines Branch, Economic Development, Yukon Territorial Government, 169 p.
CYPRUS ANVIL MINING CORPORATION, 1976. Assessment Report *#092031 by T.J. Adamson, P. Hannigan and R.P. Hill.
CYPRUS ANVIL MINING CORPORATION, Feb/77. Assessment Report #092031 by R.P. Hill.
CYPRUS ANVIL MINING CORPORATION, Apr/78. Assessment Report *#092032 by R.P. Hill.
CYPRUS ANVIL MINING CORPORATION, 1981. Assessment Report *#090815 by T.J. Adamson.
CYPRUS ANVIL MINING CORPORATION, 1981. Assessment Report #092031 by R.P. Hill.
GEOLOGICAL SURVEY OF CANADA Paper 67-40, p. 89.
MINERAL INDUSTRY REPORT 1973, p. 120-121; 1977, p. 73.
TESLIN EXPLORATION LTD, 1972. Assessment Report *#019920 by J.F. Hlavay and R.J. Kirker.

Work History

Date	Work Type	Comment
12/31/1979	Drilling	Thirty-two holes, 3,048 m.
12/31/1977	Ground Geophysics	Company experimented with various geophysical methods including various magnetic methods, VLF-EM, resistivity, scintillometer and IP. None of the methods were particularly successful.
12/31/1976	Drilling	Six holes, 1,524 m.
12/31/1976	Geology	
12/31/1973	Drilling	One hole, 73.2 m.

12/31/1971	Drilling	One hole, 94.5 m.
12/31/1970	Geology	
12/31/1970	Other	
12/31/1966	Trenching	

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
061568	1976	Carmacks Coal Project	Diamond - Drilling	10	1541.07
019920	1971	1971 Report on Explorations for Coal in the Carmacks and Nordenskiold Areas	All Weather Road - Development, Surface, Rock - Geochemistry, IP - Ground Geophysics, Prospecting - Other		
060582	1971	[Report on Explorations in Nordenskiold 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
ARMC003591	Summary of exploration and development work - 1978 - Various claims		Property File Collection	Report
ARMC003596	Summary of exploration and development work - Tantalus Butte Mine		Property File Collection	Report
ARMC008313	Plan map showing underground control survey - Tantalus Butte coal mine		Property File Collection	Geoscience Map (General)
ARMC008214	Geological map of open pit area - Carmacks coal project- Tantalus Butte - Map 2		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC008215	1981 proposed mine plan map - Carmacks coal properties - Tantalus Butte mine - Map 1		Property File Collection	Geoscience Map (General)
ARMC008216	Cross-section no. 614.650 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008217	Cross-section no. 613.000N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008218	Cross-section no. - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008219	Cross-section no. 613.250 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008220	Cross-section no. 613.200N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008221	Cross-section no. 613.350N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008222	Cross-section no. 613.300N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008223	Cross-section no. 613.450N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008224	Cross-section no. 613.400N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008225	Cross-section no. 613.550 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008226	Cross-section no. 613.650 - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008227	Cross-section no. 613.500N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008228	Cross-section no. 613.600N - 1981 mining plan - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC008229			Property File Collection	

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)
ARMC0082 58	Composite section map showing working area - underground plans - Tantalus Butte coal mine - Carmacks coal - Drawing no. WB 172A		Property File Collection	Geoscience Map (General)
ARMC0082 59	Composite plan map - Tantalus Butte mine - Drawing no. 171		Property File Collection	Geoscience Map (General)
ARMC0082 60	Vertical N-S long. section map - Tantalus Butte mine - Drawing no. 172		Property File Collection	Geoscience Map (General)
ARMC0082 93	Open pit area map - 1977 - Carmacks coal project		Property File Collection	Geoscience Map (General)
ARMC0082 94	Topographic plan map - Tantalus Butte coal mine - Carmacks		Property File Collection	Geoscience Map (General)
ARMC0083 05	Reconnaissance map - pencil manuscript - Sheet 1 of 2 - 76-67 - Carmacks		Property File Collection	Geoscience Map (General)
ARMC0083 06	Reconnaissance map - pencil manuscript - Sheet 2 of 2 - 76-67 - Carmacks		Property File Collection	Geoscience Map (General)
ARMC0083 07	Carmacks topographic map - Job No. 77-114		Property File Collection	Geoscience Map (General)

