



Occurrence Details

Occurrence Number: 106C 069

Occurrence Name: Lumina

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: cobalt, copper, uranium

Aliases: Pterd

Deposit Type(s): Uranium

Location(s): 64°57'35" N - -133°18'2" W

NTS Mapsheet(s): 106C14

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Pterd cl 1-10 (Y98056) in Jul/75 by Wernecke Joint Venture (Standard Oil Company of British Columbia Ltd & Aquitaine Company of Canada Ltd). The joint venture added Pnerd cl 1-4 (Y98240) in Aug/75, and Knit cl 1-8 (YA1320), Ptoes cl 1-8 (YA1328) and Skin cl 1-4 (YA1336) in Sep/75. The claims were explored with mapping and ground radiometric surveys later in the year and optioned in 1976 to Eldorado Nuclear Ltd, which added more claims and drilled 5 diamond drill holes (470.6 m). In 1981 after the Eldorado option expired, the joint venture drilled 3 diamond drill holes (606.9 m). Aquitaine also changed its name to Kidd Creek Mines Ltd in the same year. In Feb/2005 Twenty-Seven Capital signed an agreement with Cash Minerals Ltd whereby Cash could acquire up to a 75% interest in a large number of claims (including the Bond claims) collectively known as the Yukon Uranium Project. Cash Minerals diamond-drilled 7 holes for 504 m in 2005.

Capsule Geology

The region is underlain by a metamorphosed and altered sequence of Early Proterozoic Wernecke Supergroup clastic and carbonate rocks (Fairchild Lake Group, Quartet Group and Gillespie Lake Group, from oldest to youngest) that are intruded by Early to Middle Proterozoic mafic sills and dykes, and cut by Middle Proterozoic Wernecke Breccia. To the east, Wernecke Supergroup rocks are unconformably overlain by Middle Proterozoic Pinguicula Group rocks. According to Thorkelson (2000), Wernecke Breccia development is best modeled as a set of hydrothermal and/or phreatic breccias; brecciation being caused by explosive expansion of volatile-rich fluids. Hunt (2005) attributed Wernecke Breccia formation to periodic overpressuring of dominantly basinal fluids, which lead to repeated brecciation of host strata and mineral precipitation. A 1 500 m long float train of mineralized boulders lies atop a glacier on the Pterd group. Mineralization consists of pitchblende and brannerite in fractures and bleached Fairchild Lake Group argillite. The source appears to lie beneath the glacier or in snow and ice filled gullies on the cirque wall. A small Wernecke Breccia body was mapped in the area. Several secondary uranium minerals have been identified including green torbernite, yellow autunite and iriginite (a hydrous uranium molybdate) and orange vandendriesscheite (a hydrous uranium plumbate). No significant mineralization was intersected in the drilling in 1976 or 1981.

References

CASH MINERALS LTD., news release, 16 Feb/05.

ELDORADO NUCLEAR LTD, Sep/76. Assessment Report *#061565 by C.J. Riley and D.F. Schutz.

GORDEY, S.P. AND MAKEPEACE, A.J., 2003. Yukon Digital Geology, version 2.0, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9 (D).

HUNT, J., 2005. The geology and genesis of iron oxide-copper-gold mineralisation associated with Wernecke Breccia, Yukon Canada, PhD thesis, James Cook University, Australia, 2 volumes, 120 p.

MINERAL INDUSTRY REPORT 1975, p. 33-38; 1976, p. 124; 1977, p. 41; 1978, p. 13.

STRATEGIC METALS LTD., news release, 20 Oct/04.

THORKELSON, D.J. AND WALLACE, C.A., 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake and "Dolores Creek" areas, Wernecke Mountains, Yukon (106D/16, 106C/13, 106C/14). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 10, 73 p.

WERNECKE JOINT VENTURE, Jun/76. Assessment Report *#090103 by A.R. Archer.

WERNECKE JOINT VENTURE, Feb/82. Assessment Report *#090965 by W.D. Eaton.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 224.

YUKON EXPLORATION AND GEOLOGY 1981, p. 88.

Work History

Date	Work Type	Comment

12/31/1981	Drilling	Three holes, 606 m.
12/31/1976	Drilling	Five holes, 470 m.
12/31/1975	Ground Geophysics	
12/31/1975	Geochemistry	
12/31/1975	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095634	2007	YUP February Internal Technical Report, Season 2007 Describing Mapping, Prospecting and Diamond Drilling at the Lumina Property	Gamma-Ray Spectrometry - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other	15	4367.20
095646	2007	2007 Geological, Geochemical and Geophysical Report on the Werneckes Project	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Scintillometer - Ground Geophysics, Prospecting - Other, Backhoe - Trenching, Hand - Trenching, Handblast - Trenching	28	6537.96
095241	2006	Assessment Report Describing Airborne Geophysics, Mapping and Prosopecting at the Dolores Property	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
094953	2006	Assessment Report Describing Airborne Geophysics, Mapping, Prospecting and Diamond Drilling	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	22	2602.89
094956	2006	2006 Geological, Geochemical and Geophysical Report on the Werneckes Project	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other		
095598	2005	Assessment Report Describing Diamond Drilling and Prospecting at the Lumina Property	Gamma-Ray Spectrometry - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Prospecting - Other	7	503.63
090965	1981	Geological, Geochemical and Diamond Drilling Report, Pterd,Knit,Ptoes and Skin Claims	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other	3	607
090284	1977	Geological Report on the Ram 1-48 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
061565	1976	Report on Diamond Drilling Program Pterd, Knit, Ptoes Claims	Diamond - Drilling	5	470.61
090103	1975	Report on Geology and Radiometric Survey Pterd 1-10	Detailed Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics		

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
WJV-81-PO-06	Pterd	1981	BQ	0	2
WJV-81-PO-07	Pterd	1981	BQ	0	2
WJV-81-PO-08	Pterd	1981	BQ	0	2
DDH-76-P1	Pterd	1976	BQ	0	1
DDH-76-P2	Pterd	1976	BQ	0	1
DDH-76-P3	Pterd	1976	BQ	0	1
DDH-76-P4	Pterd	1976	BQ	0	1
DDH-76-P5	Pterd	1976	BQ	0	1