Occurrence Details

Occurrence Number: 106E 009
Occurrence Name: Igor
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 4/29/2025 4:00:40 PM

General Information

Secondary Commodities: barite, copper, iron, molybdenum, uranium
Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)
Location(s): 65°2'49" N - -134°37'42" W
NTS Mapsheet(s): 106E02
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Igor cl 1-16 (Y96124) in Aug/74 by Ogilvie Joint Venture (Chevron Canada Ltd, Marietta Resources International Ltd, Aquitaine Company of Canada Ltd), which carried out mapping and soil and rock sampling in 1974 and 1975 and a radiometric survey in 1975. Eldorado Nuclear Ltd optioned the property briefly in 1976 but did no work.
After Marietta withdrew from the joint venture in 1977, the remaining joint venture partners drilled 5 holes (488 m) in 1979 and a further 17 holes (1981 m) in 1980 and performed IP, VLF and magnetic surveys in 1981. Aquitaine changed its name to Kidd Creek Mining Ltd in 1981. A further 9 holes (1043 m) were drilled in 1982.
BHP Minerals Canada Ltd optioned the property from Archer, Cathro and Associates (1981) Ltd and performed a short geological and geochemical evaluation in 1992.
In Mar/97, Archer, Cathro and Associates (1981) Ltd carried out a drill site clean up.
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 Igor claims) collectively known as the Yukon Uranium Project. Seven diamond drillholes were completed in 2005 for a total of 1121 m.

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. Lower Cambrian to Devonian carbonate rocks lie unconformably to the west. According to Thorkelson (2000), Wernecke Breccia development is best modeled as a set of hydrothermal and/or phreatic breccias; brecciation being caused by explosive expanson of volatile-rich fluids. Hunt (2005) attributed Wernecke Breccia formation to periodic over-pressuring of dominantly basinal fluids, which lead to repeated brecciation of host strata and mineral precipitation. Mineralization of Cu, Co, U and Au in and around the Wernecke Breccia zones has been the focus of mineral exploration in the area. There is a strong connection with age, environment, physical and mineralogical characteristics between Wernecke Breccia and other mineralized breccias like the Olympic Dam deposit in Australia (Thorkelson, 2000).
The Igor claims overlie Early Proterozoic Quartet Group metasedimentary rocks. Pitchblende occurs in weak fracture zones cutting extensive zones of siderite-magnetite-hematite-barite mineralization over a 460 m by 150 m area within a breccia body intruding argillite. The Wernecke joint venture drilled 22 holes between 1979 and 1982. One hole averaged 0.088% U3O8 and 4.74% Cu across 19.7 m. A second hole drilled perpendicular to the first graded 0.089% U3O8 with 6.14% Cu across 10.6 m.
Soil sampling over the breccia returned an average of 1195 ppm Cu and 14 ppm Mo. Uranium-lead dating of pitchblende by Wernecke Joint Venture returned an age of between 1153 and 1249 Ma. This age is much younger than the Wernecke Breccia event and likely reflects later remobilization of uranium by a thermal or tectonic event.
Diamond drilling in 2005 intersected copper and uranium mineralization. One of the better intersections ran 74.4 m of 1.88% Cu and 1.4 lbs of uranium.

References

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THORKELSON, D., 2000. Geology and mineral occurrences of the Slats Creek, Fairchild Lake and 'Dolores Creek' areas, Wernecke Mountains (106D/16, 106C/13, 106C/14), Yukon Territory, Bulletin 10.

WERNECKE JOINT VENTURE, Feb/81. Assessment Report *#090756 by W.D. Eaton and A.R. Archer.

WERNECKE JOINT VENTURE, Feb/83. Assessment Report *#091445 by W.D. Eaton.

YUKON EXPLORATION AND GEOLOGY 1981, p. 201-202; 1982, p. 184; 1992, p. 2, 3.

YUKON GEOLOGY Vol. 2, p. 42-50.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 246.

Work History

Date	Work Type	Comment
12/31/1997	Development, Surface	Archer, Cathro and Associates (1981) Ltd carried out a drill site clean up.
12/31/1982	Drilling	Nine holes, 1,043 m.
12/31/1981	Ground Geophysics	Also IP and magnetic surveys.
12/31/1980	Drilling	Seventeen holes, 1,981 m.
12/31/1979	Drilling	Five holes, 488 m.
12/31/1975	Geology	
12/31/1975	Geochemistry	
12/31/1974	Geology	
12/31/1974	Geochemistry	
12/13/1975	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095639	2008	Assessment Report Describing Diamond Drilling and Geophysics at the Igor Property	Diamond - Drilling, Drill Core - Geochemistry, Gravity Survey - Ground Geophysics, Scintillometer - Ground Geophysics	31	9014
094945	2007	Assessment Report Describing Geophysics, Diamond Drilling and Prospecting at the Igor Property	Magnetic - Airborne Geophysics, Diamond - Drilling, Rock - Geochemistry, Bedrock Mapping - Geology, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics	23	3009.99
095603	2006	Assessment Report Describing Airborne Geophysics and Digital Data Compilation at the Win Property	Magnetic - Airborne Geophysics, Data Compilation - Pre-existing Data		
094966	2005	Assessment Report Describing Diamond Drilling at the Igor Property	Magnetic - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Resistivity - Ground Geophysics	7	1120.74
093624	1997	Assessment Report Describing Dill Site Clean Up at the Igor Property	Reclamation - Development, Surface		
091445	1982	Diamond Drill Report Igor 1-26 Claims	Diamond - Drilling, Drill Core - Geochemistry	9	1043.40
090756	1981	Drill Report Igor 1-26 Claims	Diamond - Drilling, Drill Core - Geochemistry, Downhole Survey - Ground Geophysics	17	1969
090562	1979	Drill Report Igor 1-26 Claims	Diamond - Drilling, Drill Core - Geochemistry, Downhole Survey - Ground Geophysics	5	488.30
090088	1976	Report on Soil Geochemistry, Geology and Radiometric Survey	Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics		
061572	1976	[1976 U/Pb Assay Results for Igor, Gnuckles, and Otis Claims in the Wernecke Range]	Silt - Geochemistry		
061203	1975	Report on Geology and Mineralization Igor 1-16 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology		

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
DDH-I-2006-10	Igor	2006	BTW	0	1
DDH-82-I-023	Igor	1982	BQ	0	2
DDH-82-I-024	Igor	1982	BQ	0	2
DDH-82-I-025	Igor	1982	BQ	0	2
DDH-82-I-026A	Igor	1982	BQ	4	2
DDH-82-I-026B	Igor	1982	BQ	12	2

DDH-82-I-027	Igor	1982	BQ	0	2
DDH-82-I-028	Igor	1982	BQ	0	2
DDH-82-I-029	Igor	1982	BQ	0	2
DDH-82-I-030	Igor	1982	BQ	0	2
DDH-80-32	Igor	1980	NQ	0	0
DDH-80-34	Igor	1980	NQ	0	0
DDH-80-B-2	Igor	1980	NQ	0	0
DDH-80-I-006	Igor	1980	BQ	0	3
DDH-80-I-007	Igor	1980	BQ	0	3
DDH-80-I-008	Igor	1980	BQ	0	3
DDH-80-I-009	Igor	1980	BQ	0	3
DDH-80-I-010	Igor	1980	BQ	0	3
DDH-80-I-011	Igor	1980	BQ	6	3
DDH-80-I-012	Igor	1980	BQ	2	3
DDH-80-I-013	Igor	1980	BQ	14	3
DDH-80-I-014	Igor	1980	BQ	16	3
DDH-80-I-015	Igor	1980	BQ	14	3
DDH-80-I-016	Igor	1980	BQ	6	3
DDH-80-I-017	Igor	1980	BQ	4	3
DDH-80-I-018	Igor	1980	BQ	14	3
DDH-80-I-019	Igor	1980	BQ	14	3
DDH-80-I-020	Igor	1980	BQ	14	3
DDH-80-I-021	Igor	1980	BQ	12	3
DDH-80-I-022	Igor	1980	BQ	12	3
Compilation Box	Igor	1979	BQ	0	0
DDH-79-I-001	Igor	1979	BQ	0	3
DDH-79-I-002	Igor	1979	BQ	0	3
DDH-79-I-003	Igor	1979	BQ	0	3
DDH-79-I-004	Igor	1979	BQ	0	2
DDH-79-I-005	Igor	1979	BQ	0	2
SPECIMENS - holes I15, I1, I3	Igor	1979	BQ	2	0