



Occurrence Details

Occurrence Number: 105G 052

Occurrence Name: Dol

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 12/16/2025 3:28:14 AM

General Information

Secondary Commodities: copper, silver, zinc

Deposit Type(s): Volcanogenic Sulphide - type not determined

Location(s): 61°46'17" N - -131°22'12" W

NTS Mapsheet(s): 105G14

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Davie cl (Y16897) in Jul/66 by Kerr Addison Mines Ltd, following a regional aeromag survey earlier in the year and explored with mag and EM surveys, a gravity survey and geochemical surveys in 1966-67. Restaked as Dol cl (Y22786) in Mar/68 by Spartan Explorations Ltd, which drilled one hole (77 m) later in the year. Restaked as Black cl 1-16 (YA11840) in Nov/76 by Marge Enterprises Ltd, which drilled one hole (86 m) in 1977. Fringe staking in 1977 included Good, etc cl (YA20168) to the west by M. Mooney and NTX cl (YA12494) by Nithex Exploration & Development Ltd to the northwest, which were trenced in 1978. In 1978, Kerr Addison optioned and enlarged the Black group with the Val & Vam cl (YA28667), conducted EM and geochemical surveys and drilled 2 holes (304 m). The Vam group was transferred to G. Harris and A. Carlos, who performed hand trenching in 1979 and surveys in 1981. The occurrence presently lies within an area withdrawn from staking due to land claims negotiations.

Capsule Geology

Geological mapping (Murphy et al., 2001) shows the region is dominantly underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks of the Yukon-Tanana Terrane (YTT) that have been intruded by Mississippian granitic intrusions and later Jurassic, Cretaceous and Eocene intrusions. The YTT is a volcanic-plutonic pericratonic arc assemblage that was strongly deformed and metamorphosed by Late Triassic time. Volcanic-hosted massive sulphide deposits exist at different stratigraphic positions within the YTT including the Fyre Lake deposit (Minfile Occurrence #105G 034) in the Devonian to lower Mississippian(?) Fire Lake mafic metavolcanic unit.

The occurrence was staked to cover aeromagnetic anomalies of 150-200 gammas identified by government-sponsored airborne geophysical surveys. Follow-up ground surveys identified a coincident mag-EM anomaly on the east side of Tom Lake, which geophysicists extrapolated across to the west side. A gravity survey returned a 0.1 - 0.2 milligal anomaly centred over the lake. Soil sampling outlined moderate Cu-Zn anomalies on both sides of the lake, and, although exposure is poor, prospecting identified a gabbro body to the west and pyritic schist altered to a propylitic-argillic assemblage near the anomaly.

Spartan Explorations' 1968 hole intersected carbonaceous phyllite with occasional serpentinite partings from surface to 34 m. From 31 m to the bottom at 77 m, the drill cored dark grey and green argillites. The highest assay was 0.5% Zn, 0.1% Cu and 10.3 g/t Ag across 2.7 m of phyllite.

Marge Enterprises' 1977 drill hole intersected black carbonaceous phyllite, quartz-sericite-chlorite phyllite, and minor chloritic/serpentine partings. Minor chalcopryrite, sphalerite and galena were noted but no assays appear to have been taken. Both of Kerr Addison's 1978 drill holes intersected quartz-sericite-phyllites +/- graphite in the top two thirds of the holes followed by massive to banded, mafic volcanic rocks with up to 5% magnetite. No assay results were reported but pyrite was noted throughout both holes.

References

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HUNT, J.A., 2001. Volcanic-associated massive (VMS) mineralization in the Yukon-Tanana Terrane and coeval strata of the North American miogeoclinal, in the Yukon and adjacent areas. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 12, 107 p.

KERR ADDISON MINES LTD, Dec/78. Assessment Report #091164 by F. Chow and P. Lewis.

MARGE ENTERPRISES LTD, Feb/77. Assessment Report #062084 by D.W. Goodbrand and A.E. Nevin.

MARGE ENTERPRISES LTD, Oct/77. Assessment Report #091163 by A. Carlos et al.

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MURPHY, D.C. AND PIERCEY, S.J., 1999b. Geological map of parts of Finlayson Lake (105G/7, 8 and parts of 1, 2, and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100 000-scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 1999-4.

MURPHY, D.C. AND PIERCEY, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. In: *Yukon Exploration and Geology 1999*, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 55-66.

MURPHY, D.C., COLPRON, M., GORDEY, S.P., ROOTS, C.F., ABBOTT, G., AND LIPOVSKY, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G) Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

MURPHY, D.C., COLPRON, M., ROOTS, C.F., GORDEY, S.P. AND ABBOTT, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon) , Part 1: Bedrock geology . In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

PIERCEY, S.J., HUNT, J.A. and MURPHY, D.C., 1999. Lithogeochemistry of meta-volcanic rocks from Yukon-Tanana Terrane, Finlayson Lake region, Yukon: Preliminary results. In: Yukon Exploration and Geology 1998, C.F. Roots and D.S. Emond (eds.), Exploration and Geological Services Division, Indian and Northern Affairs Canada, p.125-138.

Work History

Date	Work Type	Comment
12/31/1979	Trenching	
12/31/1978	Drilling	Two holes, 304 m.
12/31/1978	Geochemistry	
12/31/1978	Ground Geophysics	
12/31/1977	Drilling	One hole, 86 m.
12/31/1968	Drilling	One hole, 77 m.
12/31/1967	Ground Geophysics	Also EM and gravity surveys.
12/31/1966	Geochemistry	
12/31/1966	Airborne Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
091164	1978	Diamond Drill Record, Carlos-Harris Option, Black Claim Group	Diamond - Drilling	2	298
062084	1977	Report on the Black and My Claims near Ross River, Y.T.	Research/Summarize - Pre-existing Data		
091163	1977	Diamond Drill Record, Black 1-36 Mineral Claims	Diamond - Drilling	1	85.60

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC004939	Overburden drilling log - Vam		Property File Collection	Drill Logs
ARMC004940	Diamond drill record - Carlos-Harris option - Black claim block		Property File Collection	Drill Logs
ARMC004941	Claim map - Black claims		Property File Collection	Geoscience Map (General)
ARMC004942	Map - Carlos Harris option - Val, Vam, Black claims		Property File Collection	Geoscience Map (General)
ARMC004943	Map - B.L. - 287 [deg] - Dec 34 [deg] 10'		Property File Collection	Geoscience Map (General)
ARMC004948	Claim map and claim sheet of Vam claims		Property File Collection	Geoscience Map (General)
ARMC004950	Claim map of Val claims 1 to 45		Property File Collection	Geoscience Map (General)
ARMC004955	Composite plan map - Ground magnetics, E.M. and zinc geochemistry - Old Davie claim area		Property File Collection	Geophysical Map
ARMC004956	Correspondence Re: Carlos/Harris option		Property File Collection	Miscellaneous Company Documents
ARMC004978	Claim map of Vam, Black, and Val		Property File Collection	Geoscience Map (General)
ARMC007328	Correspondence Re: Davie group recording		Property File Collection	Miscellaneous Company Documents
ARMC007329	Bouguer gravity map - Davie Group - Tom Lake grid - Figure 45		Property File Collection	Geophysical Map
ARMC007620	Notes - Klinkit J.V. examination - Val claims		Property File Collection	Miscellaneous Company Documents
ARMC007621	Certificate of assay - A8412841-001-A - Val claims		Property File Collection	Assays
ARMC008525	Correspondence Re: Black 1-36 mineral claims - Finlayson Lake		Property File Collection	Miscellaneous Company Documents
ARMC008526	Report on Black, Val, Vam claims - Watson Lake		Property File Collection	Report
ARMC008527	Report on the NTX property		Property File Collection	Report
ARMC008528	Composite plan map - Ground mag, E.M., geochemistry (Zn) - New Black claim area		Property File Collection	Geophysical Map
ARMC008529	Composite plan map - Ground mag, E.M., geochemistry (Zn) - Old Davie claim area		Property File Collection	Geophysical Map
ARMC008532	Correspondence Re: Carlos-Harris option - Black, Val, Vam claims - Finlayson River area		Property File Collection	Miscellaneous Company Documents
ARMC008533	Ground magnetics map - Davie group, northeast corner - Figure 37		Property File Collection	Geophysical Map
ARMC008534	Magnetometer map of eastern half of Davie group - Figure 36		Property File Collection	Geophysical Map
ARMC008535	Ground magnetic map - Davie group - Tom Lake grid - Figure 43		Property File Collection	Geophysical Map

ARMC008536	Ground E.M. - Davie group - Tom Lake grid - Figure 44	Property File Collection	Geophysical Map
ARMC008537	Figure 38 - Davie group (West Half) ground E.M.	Property File Collection	Geophysical Map
ARMC008538	Ground E.M. map - Davie group, west half - Figure 38	Property File Collection	Geophysical Map
ARMC008539	Geochemical map - Zn in ppm - Davie group - Tom Lake grid	Property File Collection	Geochemical Map
ARMC008540	Geochemical map - Cu in ppm - Davie group - Tom Lake grid	Property File Collection	Geochemical Map
ARMC008541	Ground magnetic profile - Line 30W - Davie group, west half	Property File Collection	Geophysical Map
ARMC008542	Geochemical map - Zn, Cu, Pb - Davie group - Tom Lake grid - Figure 40	Property File Collection	Geochemical Map
ARMC008543	Claim map current to March/78 showing Kerr air mag, drill hole, and Kerr ground mag	Property File Collection	Geophysical Map
ARMC008544	Ground magnetic map - Davie group - Tom Lake grid - Figure 43	Property File Collection	Geophysical Map
ARMC008545	Contour map showing claim outline - Tom Lake	Property File Collection	Geoscience Map (General)
ARMC008547	Map - Vam claim block - Carlos-Harris option - Tom Lake	Property File Collection	Geoscience Map (General)
ARMC008548	Elevation map - Van claims	Property File Collection	Geoscience Map (General)
ARMC008549	Composite x-section - L1440E looking east - Vam claims	Property File Collection	Geoscience Map (General)
ARMC008550	Linecutting grid map - Proposed - Vam claims - Ross River area	Property File Collection	Geoscience Map (General)
ARMC008551	Geochemistry map - Pb-Zn ppm - Vam claims - Ross River area	Property File Collection	Geochemical Map
ARMC008552	Soil geochemistry map - Pb-Zn - Vam claims - Ross River area	Property File Collection	Geochemical Map
ARMC008553	Replot map of ground magnetic survey - Davie group	Property File Collection	Geophysical Map
ARMC008563	Geochemical map - Zn, Cu, Pb - Davie group area - Figure 32	Property File Collection	Geochemical Map
ARMC008569	Preliminary claim sketch and anomaly map - Carlos-Harris option - Val, Vam, Black claims	Property File Collection	Geoscience Map (General)
ARMC008570	Sketch map - Vam, Black, Val claim	Property File Collection	Geoscience Map (General)
ARMC008571	Sketches - Val claim	Property File Collection	Geoscience Map (General)
ARMC008573	Sample description notes - Vam, Black and Val claims	Property File Collection	Geoscience Map (General)
ARMC008574	Field sketches - Vam claims	Property File Collection	Geoscience Map (General)
ARMC008575	Certificates of geochemical analyses - Vam claims	Property File Collection	Assays
ARMC008576	Notes Re: Geochemical analyses - Project no. Y-11C-7	Property File Collection	Miscellaneous Company Documents
ARMC008886	Correspondence Re: Davie group recording	Property File Collection	Miscellaneous Company Documents
ARMC008750	Claim map - Davie claim group	Property File Collection	Geoscience Map (General)
ARMC008751	Soil sample locations map - Davie claim group	Property File Collection	Geochemical Map
ARMC008752	Air magnetic map of Davie group - Readings in gammas	Property File Collection	Geophysical Map
ARMC008753	Location map - Davie claim group	Property File Collection	Geoscience Map (General)
ARMC008754	Magnetometer map of eastern half of Davie group	Property File Collection	Geophysical Map
ARMC008755	Geochemical map - Pelly River project - Area No. 5 - Davie group area	Property File Collection	Geochemical Map
ARMC008756	Geochemical map - Davie group - Tom Lake grid	Property File Collection	Geochemical Map
ARMC008757	Bouguer gravity map - Davie group - Tom Lake grid	Property File Collection	Geophysical Map
ARMC008758	Ground E.M map - Davie group - Tom Lake grid	Property File Collection	Geophysical Map
ARMC008759	Ground magnetic map - Davie group - Tom Lake grid	Property File Collection	Geophysical Map
ARMC008760	Ground magnetics map - Davie claim block	Property File Collection	Geophysical Map
ARMC008761	Ground E.M. map - Davie claim block	Property File Collection	Geophysical Map