



Occurrence Details

Occurrence Number: 105L 054

Occurrence Name: Kal

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 6:02:52 AM

General Information

Primary Commodities: barium

Secondary Commodities: gold, lead, silver, zinc

Deposit Type(s): Sediment hosted Stratiform Barite

Location(s): 62°54'12" N - -135°15'20" W

NTS Mapsheet(s): 105L14

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as part of Kal cl 1-292 (YA43615) between April to Sep/81 by Anaconda Canada Exploration Ltd following an airborne magnetometer and EM surveying. The company staked Bum cl 1-32 (YA43696) adjoining the northwest corner of the Kal group in Apr/81. Anaconda carried out geological mapping, geochemical sampling and geophysical surveying of both claim groups in 1982 and added Bum cl 33-106 (YA76589) in July that year. Anaconda's interest was transferred to Fleck Minerals Inc in 1985, which allowed the Kal claims to lapse. The remaining Bum cl 1-32 were optioned to Dromedary Exploration Company Ltd in Jun/88.

Dromedary restaked the occurrence as DMC cl 1-18 (YB02749) in Sep/88 and carried out geological mapping, geochemical sampling and hand trenching before adding DMC cl 37-44 (YB02837) later that month. Dromedary also staked DMC cl 19-36 (YB02819) 5 km to the northwest at the same time (Minfile Occurrence #105L 037).

In Aug/93 the DMC claims were optioned to Energold Minerals Inc, which carried out auger sampling, magnetometer surveying and geological mapping that year.

In 1995 G. Carlson acquired 100% interest in the DMC claims from Fleck Minerals and in Jun/96 Carlson optioned the claims to Blackstone Resources Inc which carried out limited geochemical rock sampling that year. Blackstone staked DMC cl 37-155 (YB80838) in Jun/97 surrounding both of the original DMC claim groups forming one contiguous block of claims. In Jul/97 the company carried out geological mapping, prospecting and geochemical rock and soil sampling between the existing grid lines in the area.

Capsule Geology

Sphalerite and argentiferous galena occur with pyrite, pyrrhotite and massive, nodular barite in fine-grained, hornfelsed turbidites of the lower Devonian to Mississippian Earn Group, which are thrust over calcareous muscovite phyllite/siltstone and wavy banded limestone of the Cambrian to Ordovician Ketchika Group. The Dromedary Mountain occurrence (Minfile Occurrence #105L 051), 27 km to the east, occurs at the same stratigraphic level.

The Kal showing consists of a mineralized horizon exposed in 12 trenches. Chip samples from trenches assayed up to 8.9% Pb, 2.8% Zn and 180 g/t Ag across 1 m. The neighboring Cave showing (Minfile Occurrence #105L 037) is exposed in a creek canyon 5 km to the northwest. A float boulder sampled in 1984 assayed 18.2% Zn, 0.64% Pb and 12.8 g/t Ag. Chip sampling in 1988 returned values up to 0.64% Pb, 18.17% Zn and 12.8 g/t Ag over 35 cm.

Regional soil sampling carried out in 1988 outlined coincident lead-zinc-silver anomalies which although discontinuous, extend over a strike length of 7.5 km and cover both the Kal and Cave showings. Within the 7.5 km anomalous area, further sampling with a hand auger in 1992 outlined a stronger 1 km long anomaly with values up to 5 728 ppm Pb. Samples from hand trench 92-1 located 550 m east-southeast of the Cave showing contained up to 7 395 ppm Pb and 4 504 ppm Zn over a 0.6 m interval of rusty weathering shale and siltstone.

Prospecting by Blackstone Resources in 1996 resulted in the discovery of a new Pb-Zn showing at the western edge of DMC cl 1-18 claims. The showing consists of interbedded shale, phyllite and calcareous siltstone that hosts pyrite, galena and sphalerite as stringers and laminations parallel to subparallel to the foliation. Barite occurs as nodules. One selective grab sample collected over a width of 50 cm returned values of 12.5% Pb, 4.70% Zn, 195 ppm Ag and 40 ppb Au.

Work in 1997 identified several zones of mineralized float and a new showing along the anomalous trend between the Kal and Cave showings that are characterized by iron sulfide mineralization, carbonate porphyroblasts, manganese oxide staining and hematitic weathering associated with fossiliferous strata. The Gully Showing, located about halfway between the Kal and Cave showings, returned up to 5.35% Pb and 5.83% Zn from grab sampling and 1.2% Pb and 0.6% Zn over 1.0 m from chip sampling.

References

ANACONDA CANADA EXPLORATION LTD, May/82. Assessment Report #091031 by A.R. Scott.

ANACONDA CANADA EXPLORATION LTD, May/82. Assessment Report #091033 by A.R. Scott.

ANACONDA CANADA EXPLORATION LTD, May/82. Assessment Report #091065 by R.D. Hall.

ANACONDA CANADA EXPLORATION LTD, Nov/82. Assessment Report #091393 by R.D. Hall.

ANACONDA CANADA EXPLORATION LTD, Jun/83. Assessment Report #091461 by R.D. Hall.

BLACKSTONE RESOURCES LTD, Mar/97. Assessment Report #093595 by D.A. Caulfield and J. Weber.

BLACKSTONE RESOURCES LTD, Feb/97. Assessment Report #093618 by D.A. Caulfield and J. Weber.

BLACKSTONE RESOURCES LTD, Feb/98. Assessment Report #093755 by M.I. Jones.

BLACKSTONE RESOURCES LTD, 21 Jun/96, 21 Sep/96, 10 Jun/97, 14 Aug/97. News Release.

BUTTERWORTH, B.P. and JONES, M., Geology and mineralization on the Dromedary property, central Yukon. In: Yukon Exploration and Geology 1997, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 121-124.

DROMEDARY EXPLORATION COMPANY LTD, Jun/89. Assessment Report #092726 by H.J. Keyser and G. Smith.

DROMEDARY EXPLORATION COMPANY LTD, Mar/90. Assessment Report #092850 by H.J. Keyser.

DROMEDARY EXPLORATION COMPANY LTD, Apr/90. Assessment Report #093048 by R. Hulstein.

ENERGOLD MINERALS INC, Dec/93. Assessment Report #093148 by H. Sellmer and R. Zuran.

GEORGE CROSS NEWSLETTER, 7 Nov/96, 1 Aug/97,

YUKON EXPLORATION 1990, p. 9, 11.

YUKON EXPLORATION AND GEOLOGY 1982, p. 148; 1992, p. 3; 1996, p. 21-22, 32; 1997, p. 22, 35.

Work History

Date	Work Type	Comment
12/31/1997	Geochemistry	Also soil sampling.
12/31/1997	Geology	
12/31/1997	Other	
12/31/1996	Geochemistry	
12/31/1996	Geology	
12/31/1993	Geochemistry	Collected using hand auger.
12/31/1993	Ground Geophysics	
12/31/1988	Geochemistry	Also rock and silt sampling.
12/31/1988	Ground Geophysics	Also VLF-EM survey.
12/31/1988	Trenching	
12/31/1982	Ground Geophysics	(Max-min), magnetometer and gravity surveys.
12/31/1981	Geology	
12/31/1981	Geochemistry	Also rock chip sampling.
12/31/1981	Airborne Geophysics	Also EM survey.
12/13/1982	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093755	1997	1997 Exploration Program on the Dromedary Property, Ace, Nora, Queen, King and Dmc Claims	Rock - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology, Gravity Survey - Ground Geophysics, Magnetism - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand - Trenching		
093764	1997	1997 Exploration Program on the Dromedary Property, Ace, Nora, Queen, King and Dmc Claims	Rock - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology, Gravity Survey - Ground Geophysics, Magnetism - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand - Trenching		
093595	1996	1996 Exploration Program on the Dromedary Property	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Regional Bedrock Mapping - Geology, Prospecting - Other	5	939
093157	1993	1993 Physical Assessment on the Dromedary Mountain Option	Soil - Geochemistry, Bedrock Mapping - Geology, Magnetism - Ground Geophysics		
093148	1993	1993 Physical Assessment on the Dromedary Mountain Option	Soil - Geochemistry, Regional Bedrock Mapping - Geology, Magnetism - Ground Geophysics, Data Compilation - Pre-existing Data		
091393	1982	Report for Assessment Geological, Geochemical and Geophysical Evaluation of the Kal 1-292 Claims	Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetism - Ground Geophysics		