

Location/Identification

MINFILE Number:	093O 021		
Name(s):	<u>LAURA</u> LAURA NO. 2, MOUNT BISSON, MT. BISSON, MOUNT BISON, MT. BISON		
Status:	Showing	Mining Division:	Omineca
		Electoral District:	Nechako Lakes
Regions:	British Columbia	Resource District:	Mackenzie Natural Resource District
BCGS Map:	093O051		
NTS Map:	093O12W	UTM Zone:	10 (NAD 83)
Latitude:	55 31 19 N	Northing:	6153277
Longitude:	123 56 27 W	Easting:	440601
Elevation:	1585 metres		
Location Accuracy:	Within 500M		
Comments:	Location of sample UG-7826, east of Manson River and 2.2 kilometres west of Mount Bisson, about 55 kilometres northwest of the community of Mackenzie.		

Mineral Occurrence

Commodities: Thorium, Rare Earths, Lanthanum, Cerium, Praseodymium, Neodymium, Samarium

Minerals	Significant:	Allanite, Monazite
	Associated:	Quartz, Magnetite, Nepheline, Feldspar
	Alteration:	Aegirine, Augite
	Mineralization Age:	Unknown
Deposit	Character:	Disseminated
	Classification:	Pegmatite
	Type:	O02: Rare element pegmatite - NYF family

Host Rock

Dominant Host Rock:	Metasedimentary		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Proterozoic	Ingenika	Undefined Formation	-----
Upper Proterozoic	-----	-----	Wolverine Complex
Isotopic Age	Dating Method	Material Dated	
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Lithology:	Allanite Pegmatite, Gneiss, Monzonite, Biotite Amphibolite, Aegirine Augite Feldspar Syenite		

Geological Setting

Tectonic Belt:	Omineca	Physiographic Area:	Manson Upland
Terrane:	Ancestral North America		
Metamorphic Type:	Regional	Relationship:	Post-mineralization
Grade:	Amphibolite		

Inventory

Ore Zone: TRENCH
Category: Assay/analysis

Year: 2011
Report On: N
NI 43-101: N

Sample Type: Rock

Commodity	Grade
Rare Earths	0.564 per cent

Comments: trench samples (TR11-14B) yielded up to 0.564 per cent TREO+Y over 1.0 metre

Reference: Assessment Report 32770

Ore Zone: SAMPLE
Category: Assay/analysis

Year: 1994
Report On: N
NI 43-101: N

Sample Type: Grab

Commodity	Grade
Cerium	0.252 per cent
Gadolinium	0.174 per cent
Lanthanum	0.159 per cent
Praseodymium	0.086 per cent
Samarium	0.087 per cent
Yttrium	1.9 per cent

Comments: grab sample BIR-2

Reference: Assessment Report 24861

Ore Zone: SAMPLE
Category: Assay/analysis

Year: 1989
Report On: N
NI 43-101: N

Sample Type: Rock

Commodity	Grade
Cerium	2.53 per cent
Lanthanum	2.24 per cent
Neodymium	0.58 per cent
Praseodymium	0.13 per cent
Samarium	0.50 per cent
Thorium	0.11 per cent

Comments: sample (UG-7826), taken 350 metres to the southeast

Reference: Assessment Report 17872

Ore Zone: SAMPLE
Category: Assay/analysis

Year: 1988
Report On: N
NI 43-101: N

Sample Type: Rock

Commodity	Grade
Cerium	2.5300 per cent
Lanthanum	2.2400 per cent
Neodymium	0.5800 per cent
Praseodymium	0.1300 per cent
Samarium	0.5000 per cent
Thorium	0.1100 per cent

Comments: Sample of allanite pegmatite.

Reference: Property File and Assessment Report 17872.

Capsule Geology

The Laura occurrence is located on Mount Bisson, 55 kilometres northwest of the community of Mackenzie.

The area lies within the Omineca Belt, which consists of siliciclastic sediments with minor carbonates and mafic rocks. These rocks belong to the Upper Proterozoic Ingenika Group. Within the Wolverine Range, the sediments are highly metamorphosed and subsequently intruded by granodioritic bodies and associated pegmatites, which are possibly Early Cretaceous. These high-grade metamorphic rocks, known as the Halleran Alkaline Complex, part of the Wolverine complex, consist of amphibolite and calc-silicate gneiss, schists, micaceous quartzite, and crystalline limestone. Metasomatism of the Wolverine amphibolite gneisses resulted in a secondary alkalic overprinting, possibly related to a deep-seated intrusion. Four rare earth element (REE) minerals have been found on the property, including monazite, allanite, cerorthite and an unidentified Ba-Fe-REE-silicate.

The Laura showing occurs within a 110 by 60 metre zone of alkalic alteration. Monzonite (Mount Bisson intrusions) outcrops to the south. Biotite amphibolite appears to be altered to banded aegirine augite-alkali feldspar syenite. Within the alteration zone are various pegmatites containing allanite, nepheline, monazite, quartz, magnetite, and feldspar. The allanite pegmatites are up to 30 metres long and 4 metres wide.

In 1988, a sample (UG-7911) of allanite pegmatite assayed 0.11 per cent thorium, 2.24 per cent lanthanum, 2.53 per cent cerium, 0.13 per cent praseodymium, 0.58 per cent neodymium, and 0.5 per cent samarium (Assessment Report 17872).

In 1989, a radioactive sample (UG-7826), taken 350 metres to the southeast, assayed 0.305 per cent thorium, greater than 0.002 per cent strontium, 0.141 per cent praseodymium, 0.419 per cent neodymium, greater than 0.9 per cent lanthanum and greater than 2.0 per cent cerium (Halleran, 1989 - Property File and Assessment Report 19404).

In 1994, a grab sample (BIR-2) assayed 0.159 per cent lanthanum, 0.252 per cent cerium, 0.031 per cent praseodymium, 0.086 per cent neodymium, 0.087 per cent samarium, 0.174 per cent gadolinium and 1.9 per cent yttrium (Assessment Report 24861).

In 2011, trench samples yielded up to 0.564 per cent total rare earth oxides plus yttrium (TREO+Y) over 1.0 metre (TR11-14B; Assessment Report 32770).

The property was discovered by prospecting in 1987 and optioned by Chevron Minerals Limited a year later. A program of rock and soil sampling, geological mapping and a 2.7 line-kilometres ground scintillometer survey was completed at this time. In 1989, a program of rock sampling and geological mapping was completed. In 1996, Argonauts Group completed prospecting and geological mapping on the area as the ERZ claims. During 2006 through 2011, Paget Minerals completed programs of rock and silt sampling, geological mapping and a combined airborne magnetic and radiometric survey, totalling 564.4 line-kilometres, on the area known as the Mount Bisson property.

Bibliography

EMPR ASS RPT 117734, *17872, *19404, *24861, 28877, 29693, 30498, 31947, *32770

EMPR EXPL 1988-C182

EMPR FIELDWORK 1987, pp. 169-180; *1989, pp. 297-304; 1992, pp. 301-306

EMPR PF (Report by Halleran, A.A.D., 1989)

EMPR PF Chevron (Chemex Labs Ltd. (1987): Certificate of Analysis for Mon 1-8 samples; Unknown (unknown): Rough calculations of chip and rock samples from the Will, Laura, and Ursa claims; Unknown (unknown): Map of the Property Geology of the Halleran Alkaline Complex; Chemex Labs Ltd. (1986): Certificate of Analysis for Mon 1-8 and Mon 2-86 samples; M.W. Hitzman (1989): Letter to Jim Allan re Ursa property; Unknown (unknown): Fig. 7 Laura Alkaline Intrusive; Unknown (1988): Figure Three, map showing geology and showings, REE - Mt. Bison; S. McAllister (1988): Memo to Earl Dodson re: REE Project - Mt. Bison - summary of results; M.W. Hitzman (1989): Chevron Minerals, 1989, letter to John Hamilton regarding Ursa property; A. Halleran (1988): The Halleran Alkaline Complex Manson Creek Area; A. Halleran (unknown): Location of Halleran Property and other carbonatite and nepheline syenite gneiss complexes; Unknown (unknown): Fig. 6 - Property Geology, Halleran Alkaline Complex; Unknown (unknown): Fig. 10 - Cross-section map of the Ursa Property; Meder (1997): Figure 2 - Geological map of the Aley carbonatite)

PR REL Paget Minerals Corp., Aug.25, 2010, Aug.23, 2011

GSC MAP 11-1961

GSC OF 925

EMPR PFD 840421, 840008, 840001, 840006, 840002, 840018, 840025, 840026, 840010, 840013, 840012, 840014, 840030, 840015, 21754, 21755

Date Coded:	1990/08/01	Coded By:	Larry Jones (LDJ)	Field Check:	N
Date Revised:	2018/01/26	Revised By:	George Owsiacki (GO)	Field Check:	N