

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: 2014 Exploration Report Opal Property Group

TOTAL COST: \$4605.50

AUTHOR(S): William Larry Amey **SIGNATURE(S):** _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ **YEAR OF WORK:** 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5532338

PROPERTY NAME: Opal Group

CLAIM NAME(S) (on which the work was done): 599584, 605233, 838427

COMMODITIES SOUGHT: gemstones

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISW084

MINING DIVISION: Kamloops **NTS/BCGS:** 092I.024

LATITUDE: 50 ° 17 ' 31 " **LONGITUDE:** 121 ° 19 ' 43 " (at centre of work)

OWNER(S):
1) David R. Chamberlain 2) Tanner David Saunders

MAILING ADDRESS:
103-26055 Trans Canada Hwy 4825 Dell Road
Hope, BC V0X 1L3 Windermere, BC V0B 2L2

OPERATOR(S) [who paid for the work]:
1) David R. Chamberlain 2) _____

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Cretaceous, Spences Bridge Group, Spius Creek Formation, Andesitic volcanic rocks, agates, opals

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 31483, 31588, 31594,
32261, 32284, 32285, 33205, 34624

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area)	_____	_____	4605.50
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
		TOTAL COST:	4605.50

2014

EXPLORATION REPORT

“Opal Property Group”

(Six Tenures)

EVENT # 5532338

TENURES # 599584, 599585, 605233, 605237, 605238 and 838427

Names: Opal Slopes, Opal Summit, Opal One, Opal Two, Opal Three and Opal Four

Lytton / Shaw Springs Region
Kamloops Mining Division
Map 092I

Central Coordinate Reference
121° 19' 43.3” W Longitude – 50° 17' 31.1” N Latitude

report prepared by

William Larry Amey
FMC 145191

for

Dave R. Chamberlain
FMC 206188

January 13, 2015

INDEX

Page	i.....	Copy of Tenure Renewal
	1.....	Cover Page
	2.....	Index
	3.....	Introduction & Location plus Photo Insert
	4.....	Access and Photo Insert
	5.....	Summary and Conclusion & Photo Insert
	6.....	Work Evaluation & Cost Statement / Attending Parties & Qualifications / Affidavit
	7.....	Regional Location Map - Map 1
	8.....	Work Traverses - Map 2
	9.....	Contour Map - Map 3

Note: Unless otherwise referenced, map submissions are enhanced excerpts from the BC Ministry's Provincial Mapping System. Scale as that shown.

Introduction & Location

The Opal Property Group is a compilation of six contiguous mineral tenures located 19.5 kilometres east-northeast of the greater Lytton area, 100 (air) kilometres north of Hope or 80 (air) kilometres southwest of Kamloops. The Group comprises 474.7 hectares over twenty-three cell units.

The claim area is situated within a semi-arid climatic belt and is underlain by Middle and Upper Cretaceous Spences Bridge Group (*Spius Creek Formation*) volcanics. The area is lightly forested with primarily pine, scattered balsam and fir, and deciduous trees. Collectively, the Opal Group envelopes 4.87 linear kilometres of continuous, open-face, rock bluffs, known for hosting banded agate and on occasion, opal. Black and grey agate nodules are found in and below the basalt bluffs.



Western Rock Bluffs

Access

Access to the Opal Group of properties is gained via a FSR located along BC Highway #1, approximately 19.5 kilometres North of the north entrance to Lytton. For visual correlation, said roadway lies immediately adjacent to a moderate size gravel pit located in clear view along the East side of Highway #1, at coordinate 121° 23' 32.9" W, Longitude, 50° 17' 38.2" N Latitude. The aforementioned roadway ascends the mountain slope as it trends eastward around said pit, thence curves southward, thence eastward again, of which route is followed for a distance of approximately 5.6 kilometres, to where a branch road merges from the north. This northern branch may be used for accessing the upper (elevated) regions of the claim area, however, for gaining access to base-areas of the rock bluffs, one would continue onward on the main roadway (*still traveling in an easterly direction*) for a further distance of approximately 3.6 kilometres to the area to where the bluff begin, in total, traveling 9.2 kilometres from said Highway. The roadway fundamentally parallels along the base of the bluffs.

While smaller specimens of agate may be found on and along the roadway, to gain access to the more prime samples, one would traverse the short grade to the base of the bluffs, thence meander along its distance to collect specimens. In that rock specimens have continually been liberated from these bluffs over the past thousands of years, and whereas some have gravitated down-slope from the talus heaps at the base, collectable specimens may also be found lightly covered by the pine needles and leaf blanket that line the forest floor. Though not recommended for the novice, if adequately equipped with safety gear, many locations over the face of the bluffs may be climbed (*or descended to from above*) to reach the better samples still remaining within the host rock.



Summary & Conclusion

Exploration work performed on the Opal Property Group of tenures during the anniversary period primarily centered around placing more eyes on the ground to identify areas along the exposed basalt slopes which hold the greater potential for actual opal occurrences. Therefore, the individual properties were once again opened up to rock collecting enthusiasts to aid in the search. For this, the same associate, Brent Liu, (and avid rock collector) as was employed for the previous program was again commissioned to engage as a guide and to manage excursions to the properties. However, for the 2014 program, property visits were tailored more toward guiding one vacationing couple at a time. Visits were made on June 7, 2014, August 1, 2014 and August 23, 2014. During the first of said visits, the party of three focused on examining along (and collecting samples therefrom), the base of the rock faces – the traverse of which, is illustrated on Map 2 (hereto in following). Varieties of agate were recovered, but no opal specimens were discovered. On August 1, 2014, the second such visit to the properties, the party of three focused on examining along the corresponding traverse also illustrated on Map 2. Again, a broad variety of agate specimens were collected but no indication of opal. The final visit of the season was conducted by a party of two on August 23, 2014, along its corresponding traverse as also illustrated on Map 2. Varied specimens of agate were recovered from the talus along the rock face, On this occasion, two rock specimens, which under the magnification of a loup, appeared to reveal small inclusions of opal, were recovered by the guest. These specimens came from the general vicinity of the extreme East end of the corresponding traverse.

Whereas, on good authority, prior to the onset of staking these mineral properties, it had been reported that quality specimens of opal had been recovered from the talus slopes along these rock faces, the tenure group has been renewed for a further period, to investigate the potential.



Attending Parties, Cost Statement & Experience:

June 7, 2014

Supervisor - Brent Chon Liu	June 7, 2014	\$ 400.00
Assistant – Coreen Hanlorne	June 7, 2014	\$ 300.00
Assistant – Jeff Hanlorne	June 7, 2014	\$ 300.00
Meals.....		\$ 114.00
Vehicle..... 243 KM @ #1.60 all in		\$ 388.80
	Sub Total	\$ 1,502.80

August 1, 2014

Supervisor - Brent Chon Liu	Aug 1, 2014	\$ 400.00
Assistant – Casandra Del Fasco	Aug 1, 2014	\$ 300.00
Assistant – Perry Andrews	Aug 1, 2014	\$ 300.00
Meals.....		\$ 139.00
Vehicle..... 263 KM @ #1.60 all in		\$ 420.80
	Sub Total	\$ 1,559.80

August 23, 2014

Supervisor - Brent Chon Liu	Aug 23, 2014	\$ 400.00
Assistant – Cam Matheson	Aug 23, 2014	\$ 350.00
Meals.....		\$ 64.90
Vehicle..... 205 KM @ #1.60 all in		\$ 328.00
	ub Total	\$ 1,142.90
Report.....		\$ 400.00
	Total	\$ 4,605.50

Brent Chon Liu	7 years rock collecting experience
Coreen Hanlorne	4 years rock collecting experience
Jeff Hanlorne	4 years rock collecting experience
Casandra Del Fasco	2 years rock collecting experience
Perry Andrews	1st year rock collecting experience
Cam Matheson	5 years rock collecting experience

January 13, 2015



Report Prepared for

Dave R. Chamberlain
FMC 206188

by

William Larry Amey
FMC 145191

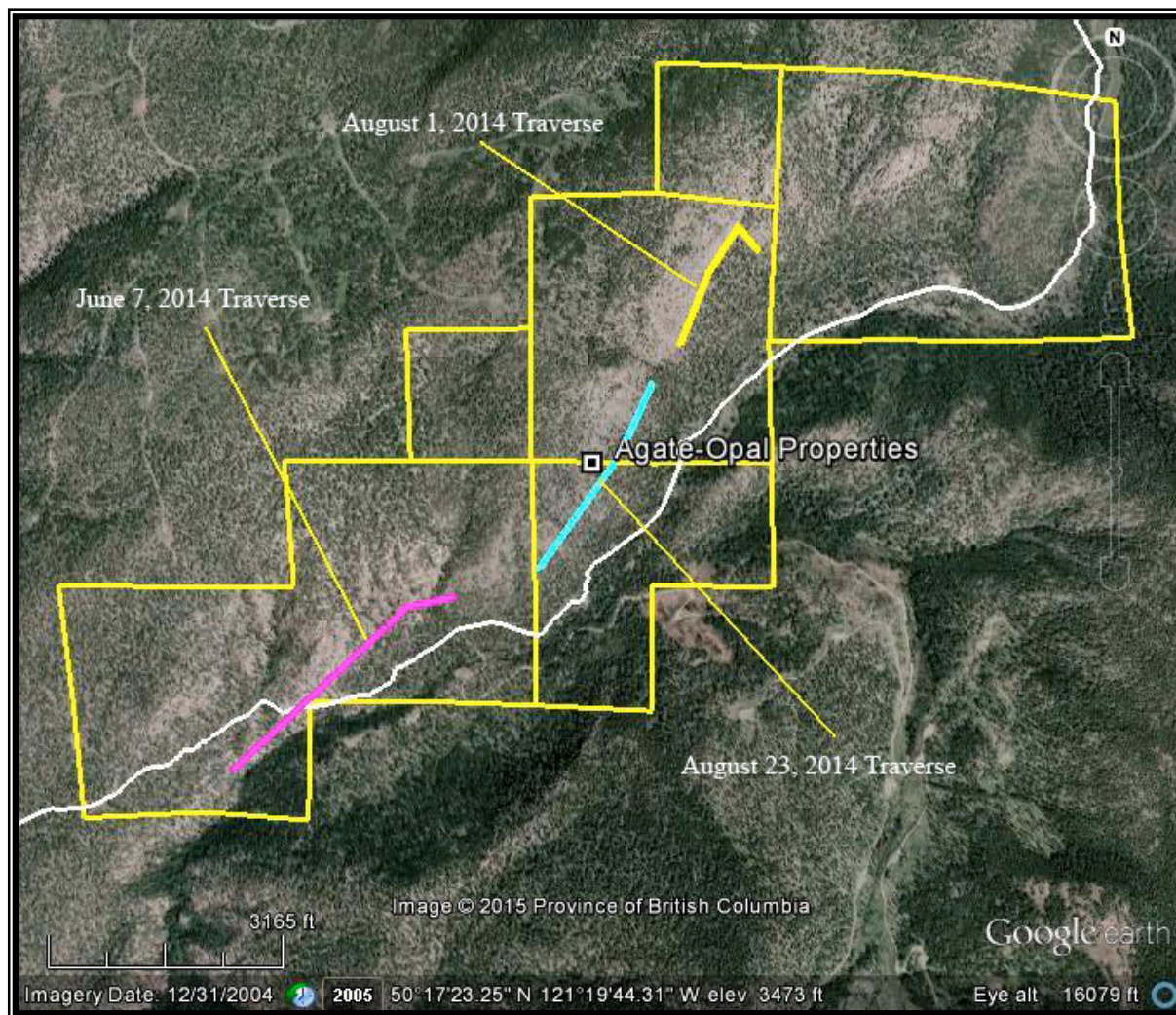
REFERENCE MAP 1

Geographical Location



REFERENCE MAP 2

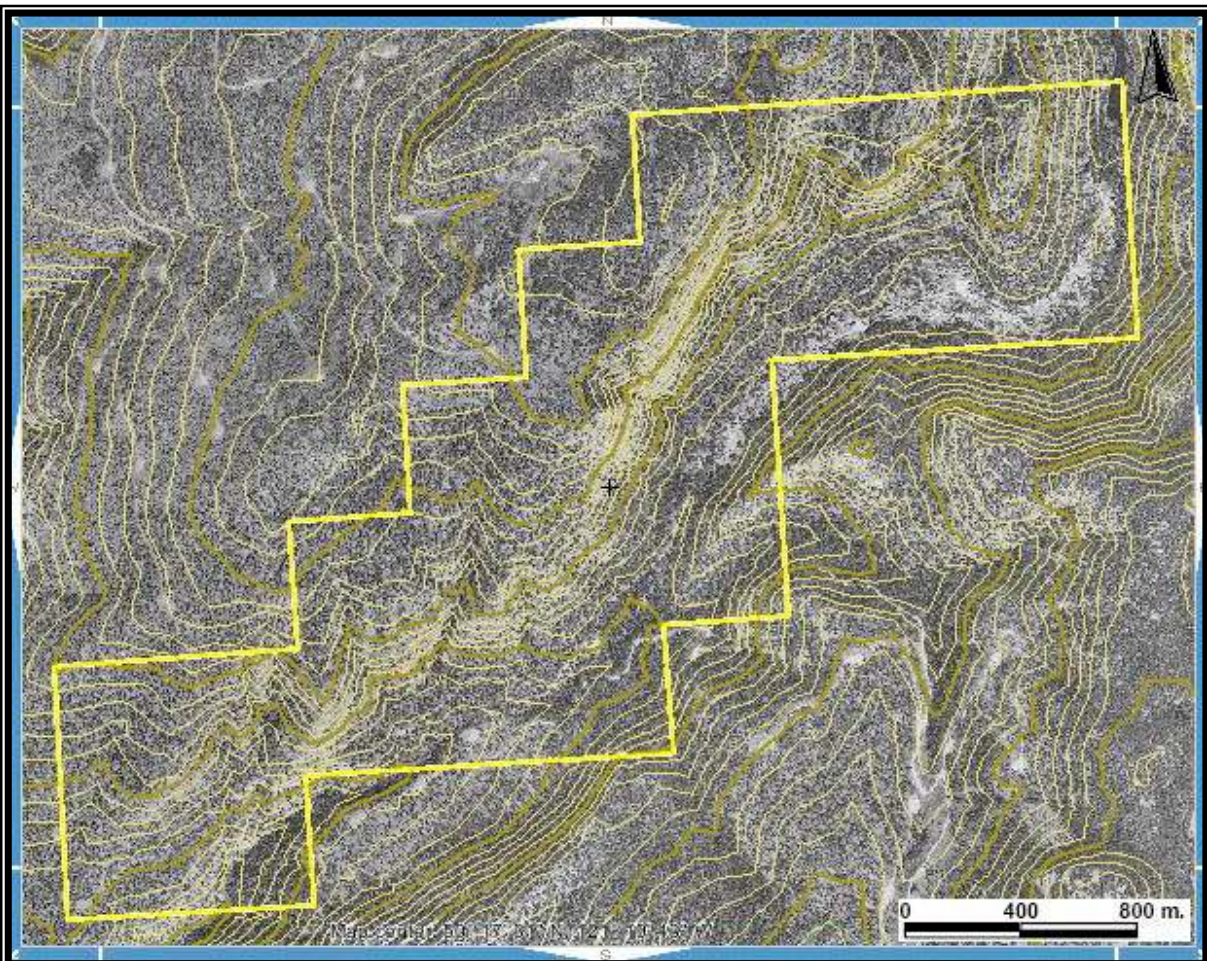
Areas of Work



Google Excerpt of Map Area 092I
Tenure Coordinate Reference
121° 19' 43.3" W Longitude – 50° 17' 31.1" N Latitude

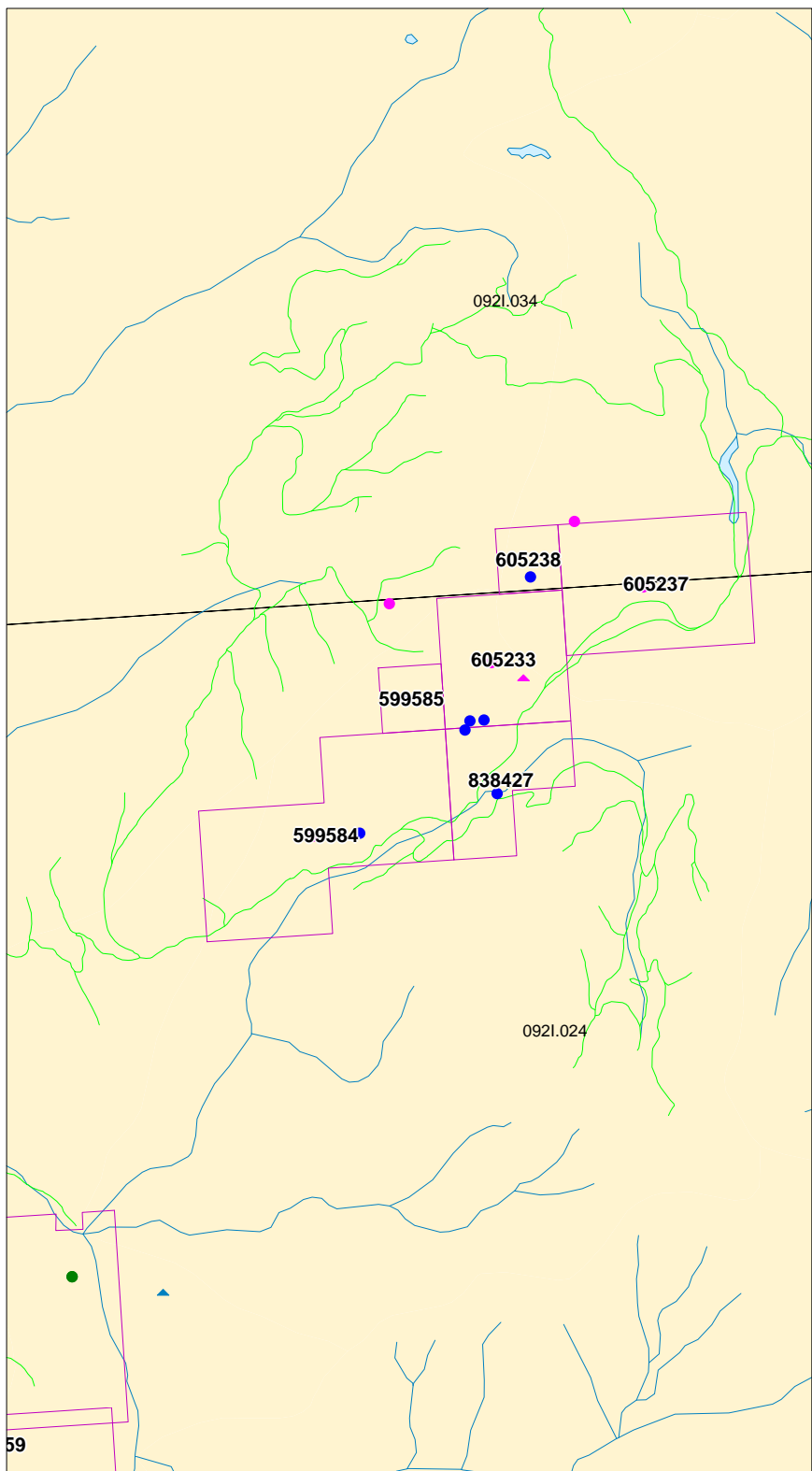
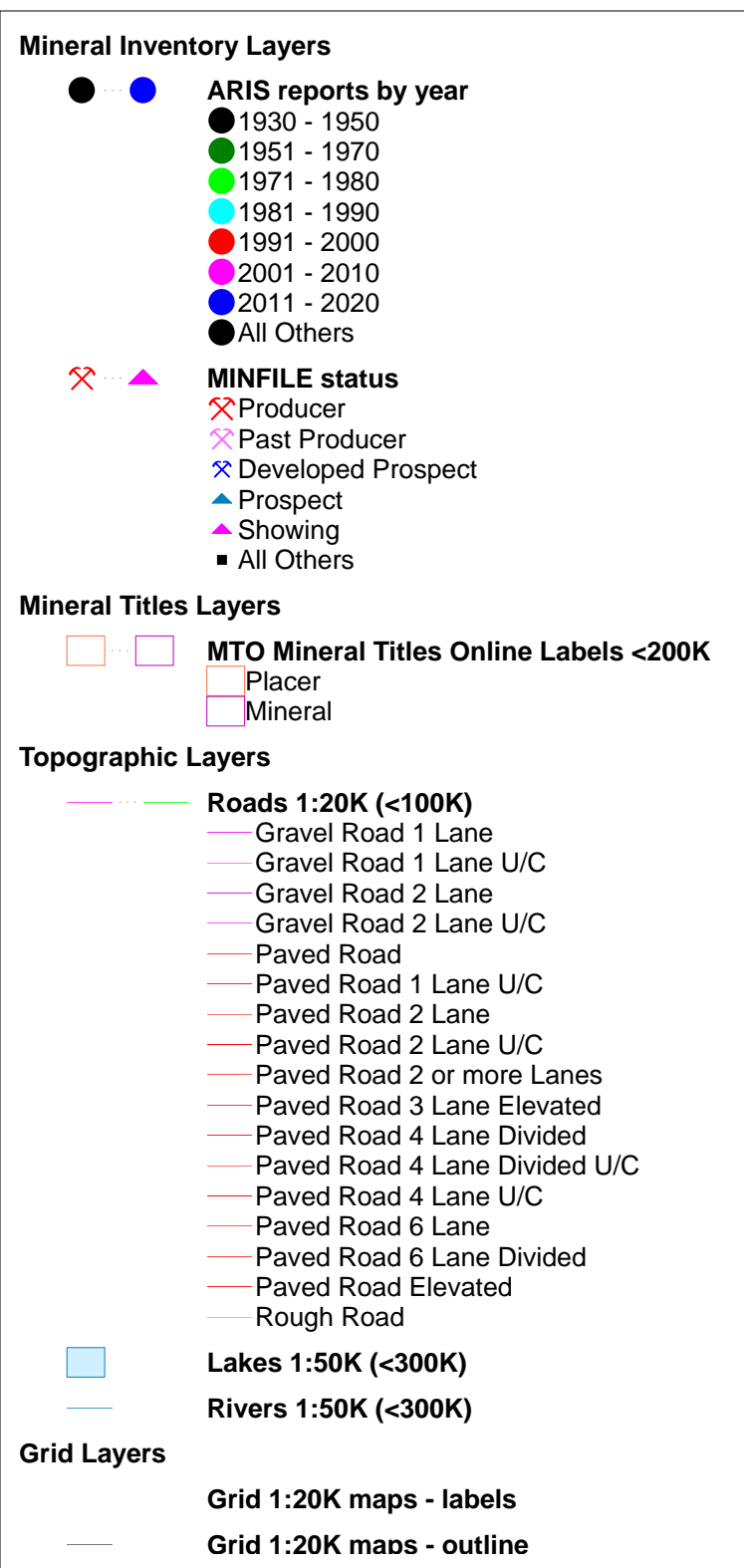
REFERENCE MAP 3

Contour Map of Tenured Area



Scale 1: 20,000
Map 092I Excerpt
Tenure Coordinate Reference
121° 19' 43.3" W Longitude – 50° 17' 31.1" N Latitude

Agate Opal Properties



SCALE 1 : 50,000



KILOMETERS





Mineral Titles Online Report

Click on [Tenure Numbers](#) for more information.

Click [column headings](#) to sort results.

[Download to Excel](#)

Tenure Number	Type	Claim Name	Good Until	Area (ha)
599584	Mineral	OPAL SLOPES	20160401	165.1748
599585	Mineral	OPAL SUMMIT	20160401	20.643
605233	Mineral	OPAL ONE	20160401	82.568
605237	Mineral	OPAL TWO	20160401	123.8407
605238	Mineral	OPAL THREE	20160401	20.6393
838427	Mineral	OPAL FOUR	20160401	61.9359

Total Area: 474.8017 ha

[BCGW Metadata](#)

[Mineral Title Online](#)

[BC Geological Survey](#)

[British Columbia Ministry of Energy and Mines](#)

Last updated in April 2007

Agate Opal Properties Regional BCGS Geology Spences Bridge Group, Spius Creek Formation

Buffer layer

Mineral Titles Layers

- MTO Mineral Titles Online Labels <200K
 - Placer
 - Mineral

Topographic Layers

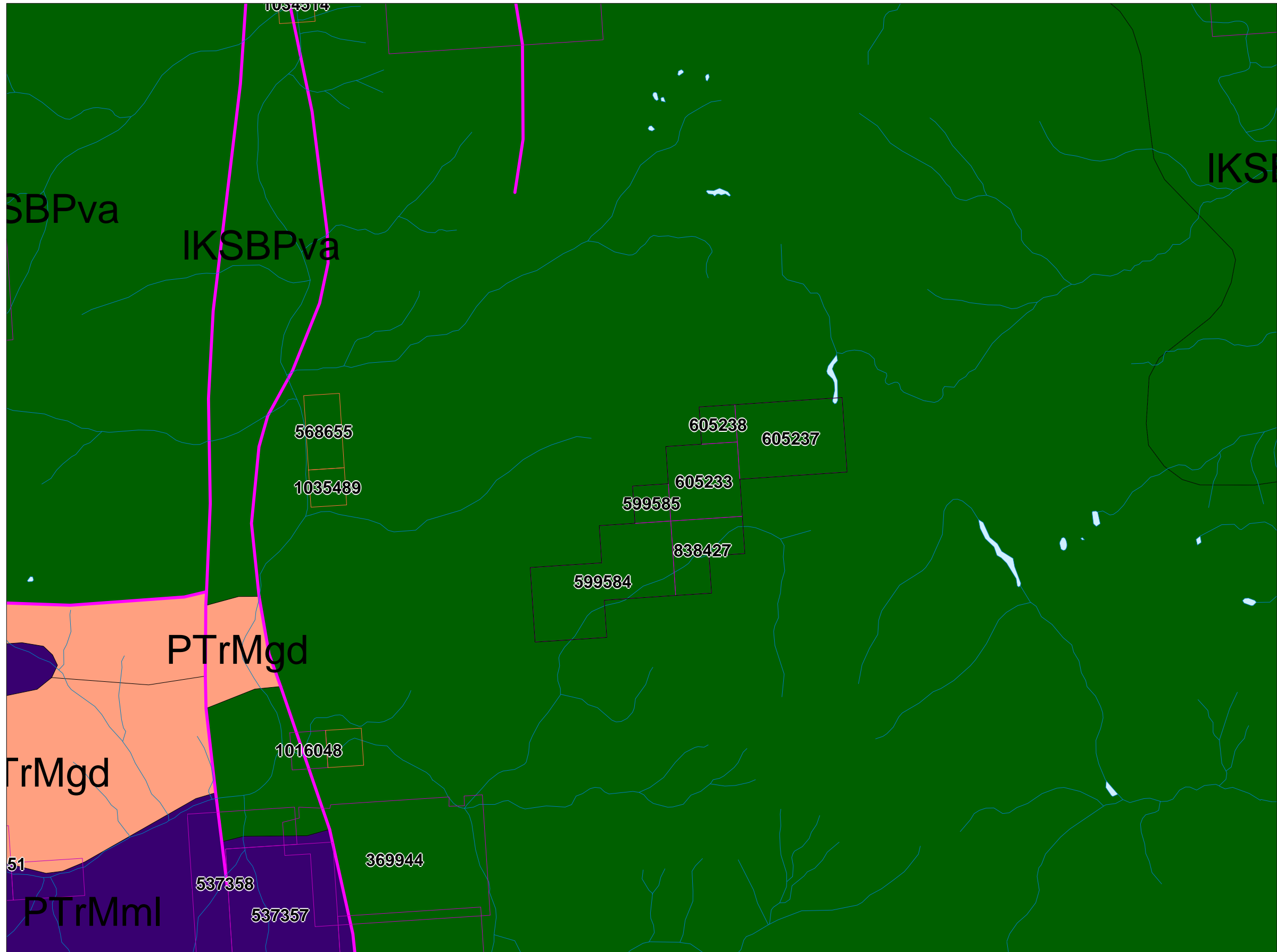
- Lakes 1:50K (<300K)
- Rivers 1:50K (<300K)

Grid Layers

- Grid 1:250K maps - outline

BCGS Geology Layers 2005

- Contacts & Faults (<1.5M)
 - Contact
 - Extension Fault
 - Fault
 - Normal Fault
 - Thrust
- Bedrock geology - by age and rock class (solid)
 - AGE UNKNOWN
 - intrusive rocks
 - metamorphic rocks
 - CENOZOIC
 - intrusive rocks
 - QUATERNARY TO RECENT
 - alluvium, till
 - sedimentary rocks
 - volcanic rocks
 - NEOGENE TO RECENT
 - sedimentary rocks
 - volcanic rocks
 - NEOGENE
 - intrusive rocks
 - sedimentary rocks
 - volcanic rocks
 - PALEOGENE TO NEOGENE
 - intrusive rocks
 - sedimentary rocks
 - volcanic rocks
 - PALEOGENE
 - intrusive rocks
 - metamorphic rocks
 - sedimentary rocks
 - ultramafic rocks
 - volcanic rocks
 - MESOZOIC
 - intrusive rocks
 - metamorphic rocks
 - sedimentary rocks
 - CRETACEOUS TO NEOGENE
 - intrusive rocks
 - metamorphic rocks
 - sedimentary rocks
 - volcanic rocks



SCALE 1 : 50,000

