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Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical Work Assessment Report **TOTAL COST:** $3,000.00

AUTHOR(S): Adam Purves **SIGNATURE(S):** Adam Purves

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): May 1 to October 30 **YEAR OF WORK:** 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Panning of Gravels/ Soils at locations along Spruce Creek and adjacent streams along the property. Take observations of stream and water supply locations and property landscape.

PROPERTY NAME:

CLAIM NAME(S) (on which the work was done): Title Number 1025927

COMMODITIES SOUGHT: Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Atlin Mining Division **NTS/BCGS:** 104N 06, 104 N 11

LATITUDE: 59 ° 29 ' 53 " **LONGITUDE:** 133 ° 19 ' 14 " **(at centre of work)**

OWNER(S):
1) Adam Purves 2)

MAILING ADDRESS:
Box 2828, Garibaldi Highlands, BC, V0N-1T0

OPERATOR(S) [who paid for the work]:
1) Adam Purves 2)

MAILING ADDRESS:
Box 2828, Garibaldi Highlands, BC, V0N-1T0

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Glaciofluvial, Fluvial, Moraianal, Bedrock - Note: Approx 95% of the property is covered by overburden

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

Next Page

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	22 Samples Taken	1025927	$3,000.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
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:	$3,000.00

2014 Technical Work Assessment Report on Atlin, BC Claim

Spruce Creek Area
Atlin Mining Division

NTS Location 104 N 06, 104 N 11
Centered on 59 degrees 29' 53" N, 133 degrees 19' 14" W

Placer Claim Title Number 1025927

Work Performed between May 1, 2014 and October 30, 2014

Report Completed by
Property Owner:
Adam Purves
P.O. Box 2828
Garibaldi Highlands, BC
V0N-1T0

April 30, 2015

BC Geological Survey
Assessment Report
35390

Table of Contents

Item	Page #
Table of Contents	2
Introduction	3
Property Location and Access	3
Property Description	4
History	4
Regional and Property Geology	4,5,6
Summary of Work Done	6
Panned Sampling Results	7
Results and Conclusions	7
Cost Statement	8
Authors Qualifications	8
Maps:	
Atlin Location	9
Claim, Regional	10
Claim, Detail	11
Atlin Regional Geology	12
Northwest Sampling Map – Claim #1025927	13
Centre Sampling Map – Claim #1025927	14
East Sampling Map – Claim #1025927	15

Introduction

Claim Title Number 1025927 in the upper Spruce Creek Area was acquired by Adam Purves on February 13, 2014, with the current Good To Date anniversary date being February 13, 2016. The claim area is 147.90 Ha, and is located in the Atlin Mining District, approximately 26km east of Atlin along Spruce Creek.

Property Location and Access

The claim property is located in the Atlin area which is located just east of the Coast Mountains on the Teslin Plateau. Atlin, with a population of around 400, is about 115 km south south-east of Whitehorse, YK, and is situated along the eastern shore of Atlin lake, the largest natural lake in British Columbia, at an elevation of 670 metres. The economy of the region is mainly driven by mining and exploration. Tourism, fishing, and winter recreation are also contributors. The topography in the Atlin region consists of rolling hills that slope into U-shaped valleys. Higher elevations reveal semi-rugged mountainous terrains. The elevation of the area varies from 700 m to 1,700 m above sea level. Elevations below 1,400 m play host to multiple types of forest vegetation, such as lodgepole pine, black spruce, scrub birch and aspen. At elevations higher than 1,400 m, the main vegetation is stunted grass and buck brush. In the valleys, mountain alder and willows are common in areas with well-developed drainage. The Atlin area climate is characterized by long winters and short summers. Winter conditions are expected from the end of October to the end of April with an average precipitation of 220 mm and an average temperature of -20°C. The summer season has an average temperature of 20°C to 25°C. During the summer months there is considerably less precipitation, averaging around 120 mm.

Access to the claim is via the Surprise Lake Road, heading east from Atlin for approximately 7 kilometers, to the Spruce Creek Road access turn off. Follow the Spruce Creek Road south east for approximately 19 kilometers, staying to the right at any junctures, to the property claim. The claim property is approximately 2.4 Km's long and covers an area of 147.9 hectares, and is situated on and adjacent to Spruce Creek.

Property Description

The claim property is approximately 2.4 Km's long and covers an area of 147.9 hectares, and is situated on and adjacent to the upper stream of Spruce Creek. The property lies in an open valley, elevations range from 1200 to 1270 meters. The property has small creeks, ponds and marsh areas located on the property. Locals have noted that the upper creek stream of Spruce Creek has been marginally productive, with the lack of water for a productive and profitable operation being the issue. There are active Placer operations operating down stream and on other creeks in the close proximate area.

History

Gold was first discovered in the Atlin area in 1897 by Fritz Miller while en-route to Dawson. The first workings were on Pine Creek and by the end of 1898, more than 3000 people were camped in the Atlin area. Placer mining has been, for most of its history, the economic mainstay for the town of Atlin. Reported placer gold production between 1898 and 1946 (the last year for which records were kept) from creeks in the Atlin area totaled 634,147 ounces (19,722 kilograms) (Holland, 1950). A number of the larger placer deposits, including those on Otter, Spruce and Pine Creeks, continued to produce significant quantities of gold into the late 1980s. Although the total placer gold production from the area to date is not available, it probably exceeds one million ounces (Ash, 2001).

Regional and Property Geology

Regional Geology:
Regional geology is excerpt from Ash, 2001. The Atlin region lies within the north-western corner of the Cache Creek Terrane (Figure 3). In this area of the terrane is a fault-bounded package of late Paleozoic and early Mesozoic oceanic lithospheres, which are intruded by post-collisional Middle Jurassic, Cretaceous and Tertiary felsic plutonic rocks.

The Cache Creek terrane is comprised predominately of graphitic argillite and pelagic sedimentary rocks, which also contain minor amounts of metabasalt and limestone occurrences in the form of pods and slivers.

Oceanic crust and upper mantle lithological remnants are concentrated along the western margin of the terrane.

From north to south, the Atlin, Nahlin and King Mountain assemblages have been described as dismembered ophiolitic packages. Each package contains imbricated mantle harzburgite, crustal plutonic ultramafic cumulates, gabbros and diorite, together with hypabyssal and extrusive basaltic volcanic rocks. The western part of the terrane is dominated by thick sections of late Paleozoic shallow-water limestone that are associated with alkali basalts. The limestone is interpreted as carbonate accumulations that formed ancient marine islands within the former Cache Creek oceanic basin. A combination of plutonic and stratigraphic evidence shows that the Northern Cache Creek Terrane was positioned over the Nahlin Fault-bounded Whitehorse Trough sediments (late Triassic to lower Jurassic) during the middle Triassic. The youngest sediments deformed by the King Salmon Fault are Bajocian rocks that are underlain by organic-rich sediments of Aalenian age. The deformed sediments are interpreted to reflect loading along the western margin of Stikinia by the Cache Creek Terrane during its initial emplacement.

The oldest post-collisional plutons that intrude the Cache Creek Terrane to the west of Dease Lake are dated at 173+/-4Ma by K-Ar methods and in the Atlin area they are dated at 172+/-3Ma by U-Pb zircon analyses. Considering the age of these plutons and its relationship with the orogenic event, the descriptive term late syn-collisional is preferable.

The eastern portion of the Northern Cache Creek Terrane is bordered mainly by the Thibert Fault that trends northward along the Teslin lineament. Discontinuous exposures of altered ultramafite along the fault suggest that it has previously undergone significant reverse motion and may be a reactivated thrust or transpressional fault zone. The latest movement along this fault during the prelate Cretaceous is believed to be dextral strike-slip.

The Northern Cache Creek Terrane is mainly made up of sub-greenschist, prehnite-pumpellyite facies rocks. Local greenschist and blueschist metamorphism are recorded. The terrane is characterized by a northwesterly-trending structural grain fabric. In the Atlin-Sentinel Mountain area there is a marked deviation from this regional orientation

with a dominant northeasterly trend. Reasons for the difference in structural grain fabric are poorly understood.

Property Geology:
The property consist of glaciofluvial and fluvial deposits going from the east to west centre of the property, morainal deposits to the north and south west of the property, with bedrock deposits to south. Approximately 95 percent of the property is covered in overburden, with the remaining 5 percent of the property exposed bedrock.

Summary of Work Done

The technical work on the property claim occurred on four (4) days between May 1, 2014 and October 30, 2014, and was undertaken in order to provide information on the presence and quantity/quality of placer gold on the property, and to determine water source supply and geographical landscape layout for potential placer operation. Sample collections were taken at several locations along Spruce Creek and adjacent areas along the full length of the claim property. Panned black sand concentrates and no visible gold was observed.

Primary mode of transportation to and from the claims was by a one-ton pickup truck, secondary transport was by ATV Quad and by hiking. I was based in the Atlin community while doing the technical work at the claim property.

Panned Sampling Results

Scouted areas along the claim where the creek / stream / marsh waters slowed down to allow for ideal sampling conditions. Results are as follows:

Panned Sampling 2014: Placer Claim Title Number 1025927

Sample #	Westing	Northing	Black Sand Concentate H/M/L	Gold Content/Fines
1	133,20,18.9	59,30,12.6	M	0
2	133,20.9.6	59,30,11.6	M	0
3	133,20,16.4	59,30,9.3	L	0
4	133,20,10.0	59,30,7.3	M	0
5	133,20,11.8	59,30,5.3	L	0
6	133,20,7.6	59,30,3.6	L	0
7	133,20,9.3	59,30,1.3	L	0
8	133,20,7.4	59,29,59.5	M	0
9	133,20,8.0	59,29,57.5	L	0
10	133,20,5.1	59,29,55.7	L	0
11	133,19,54.1	59,29,54.6	L	0
12	133,19,52.4	59,29,51.0	M	0
13	133,19,39.0	59,29,50.2	M	0
14	133,19,49.8	59,29,48.6	M	0
15	133,19,51.6	59,29,46.2	L	0
16	133,19,40.4	59,29,41.7	L	0
17	133,19,12.6	59,29,45.1	L	0
18	133,19,0.6	59,29,48.6	L	0
19	133,18,55.5	59,29,47.5	L	0
20	133,18,41.1	59,29,47.7	L	0
21	133,18,36.8	59,29,45.3	M	0
22	133,18,21.8	59,29,44.6	M	0

Adam Purves Signature:

Results and Conclusions

After extensive field testing, it's the authors conclusion that the area should be revisited so that more field work can to be done, and that a field program will be developed for the 2015 season. To date, nothing of economic interest has been found, and more field exploration and testing is required. Due to the nature of the deposits in the close proximity of the claim on Spruce Creek, there is the possibility of gold bearing streams to be located on Placer Claim Title Number 1025927.

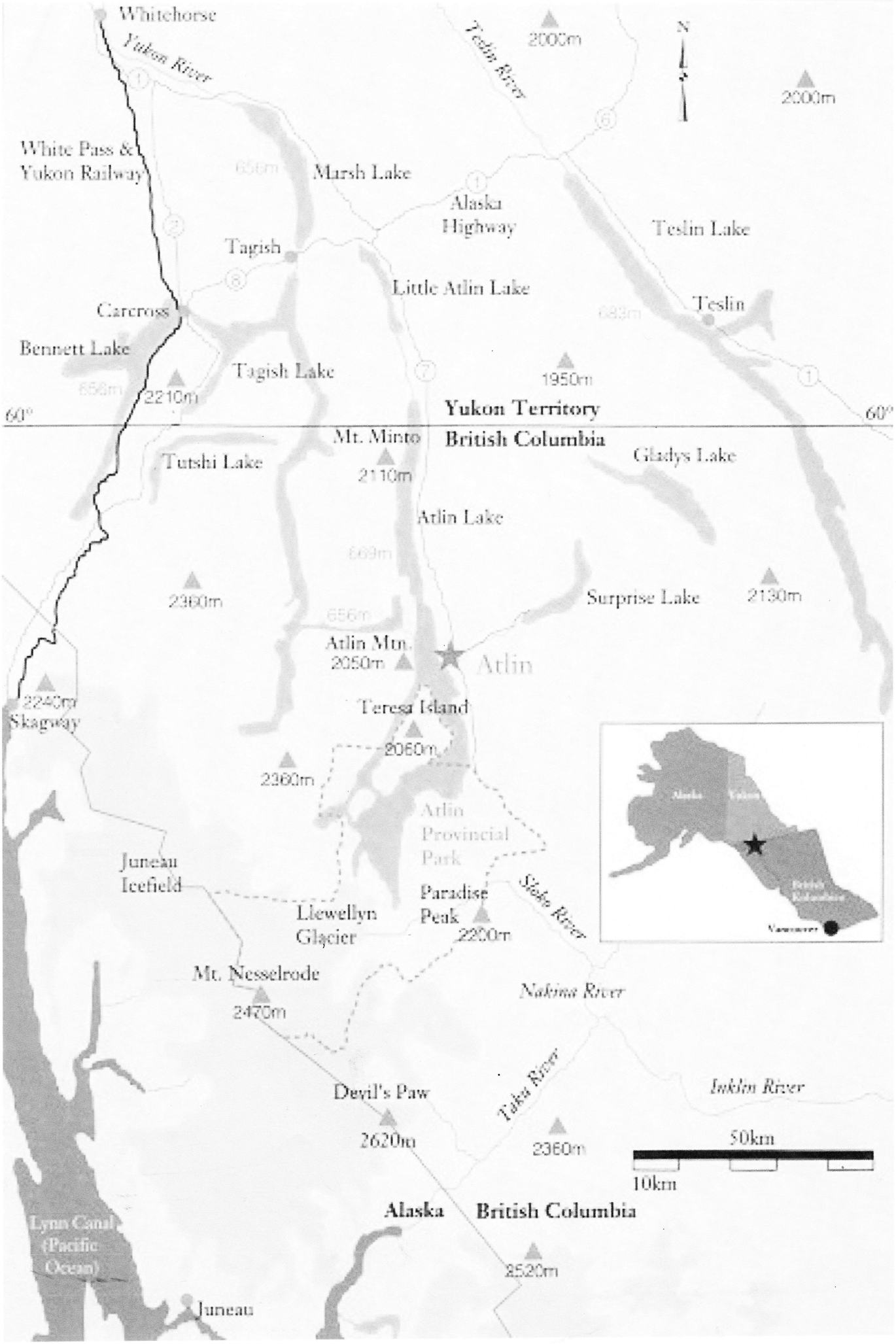
Cost Statement

Below is a statement of the major cost to perform the field technical work program that occurred over four (4) days between the dates of May 1, 2014 and October 30, 2014, on Placer Claim Title Number 1025927. Cost are approximate +/- 3% of actual cost.

4 x 4 Truck Rental	4 days @ $300.00 p/d	$1,200.00
4 x 4 ATV Quad Rental	4 days @ $175.00 p/d	$700.00
Fuel (Truck and Quad)		$250.00
Camp/Field Supplies		$250.00
Labor	4 days @ $150.00 p/d	$600.00
Total 2014 Cost		**$3,000.00**

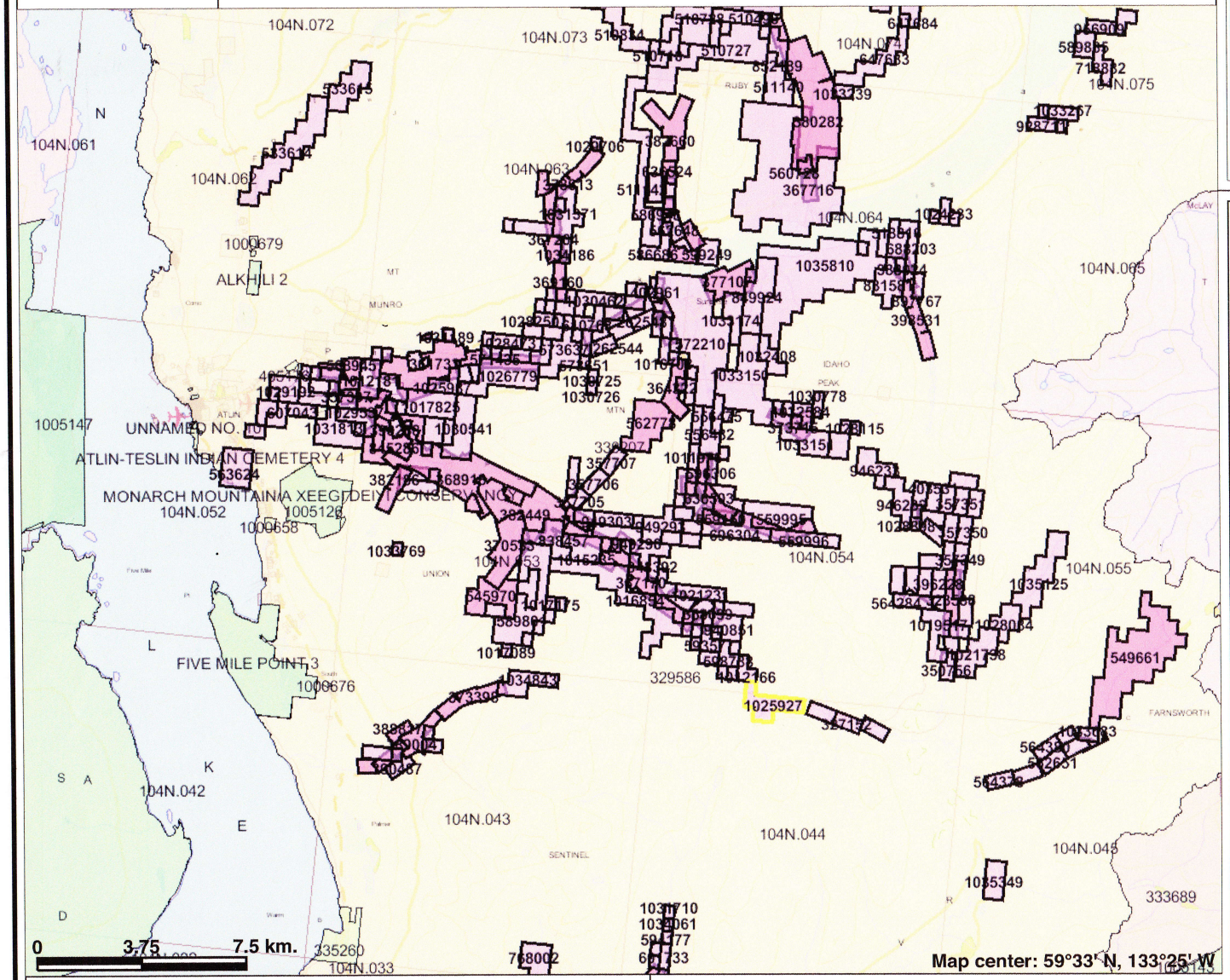
Authors Qualifications

I am a graduate from the Civil Engineering Technician program at Mohawk College. I have worked in the Heavy Construction, Oil & Gas and Mining Industry for 28 years. I'm currently the owner and president of a Mining Equipment Manufacturing and Supply company. My knowledge of Placer Claim Title Number 1025927 is based on a four (4) day field technical program, information gathered from government reports and maps, old newspaper articles, photos and historical community records, information gathered from private and public companies, local citizens and placer operators located in the Atlin region.


Whitehorse
Yukon River
Teslin River
2000m
N
2000m
White Pass &
Yukon Railway
656m
Marsh Lake
Alaska
Highway
Teslin Lake
Tagish
Little Atlin Lake
Carcross
683m
Teslin
Bennett Lake
Tagish Lake
1950m
656m
2210m
60°
Yukon Territory
British Columbia
60°
Mt. Minto
2110m
Tutshi Lake
Gladys Lake
Atlin Lake
669m
2360m
Surprise Lake
2130m
656m
Atlin Mtn.
2050m
Atlin
2240m
Skagway
Teresa Island
2060m
2360m
Atlin
Provincial
Park
Juneau
Icefield
Llewellyn
Glacier
Paradise
Peak
2200m
Stikine River
Mt. Nesselrode
2470m
Nakina River
Devil's Paw
2620m
Tuka River
2360m
Inklin River
50km
10km
Alaska
British Columbia
Lynn Canal
(Pacific
Ocean)
2520m
Juneau

MineralTitles OnlineBC

Title # 1025927



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands

Placer Tenure (current)

- Placer Claim
- Placer Lease

Placer Reserves (current)

- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Survey Parcels
- BCGS Grid

Contours (1:250K)

- Contour - Index
- Contour - Intermediate
- Areaof Exclusion
- Areaof Indefinite Contours

Annotation (1:250K)

Transportation - Points (1:250K)

- Airfield
- Anchorage - Seaplane

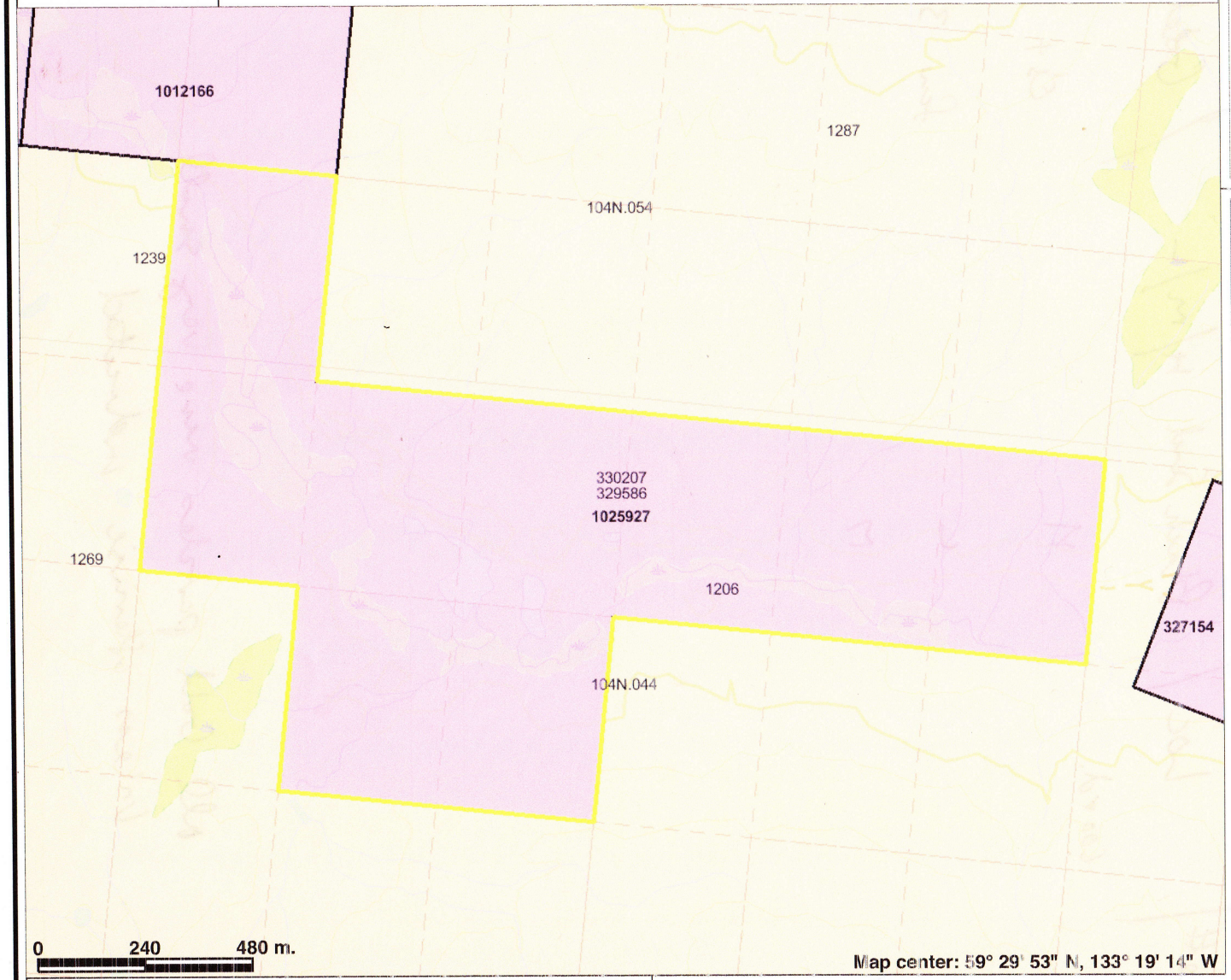
Map center: 59°33' N, 133°25' W

Scale: 1:215,423

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

MineralTitles OnlineBC

Title # 1025927



Legend

- Indian Reserves
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- Parks
- Federal Transfer Lands

Placer Tenure (current)

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- Placer Lease

Placer Reserves (current)

- Placer Claim Designation
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- Surface Restriction
- Recreation Area
- Others
- MTO Grid (MTO)
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid

Contours (TRIM)

- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression

Scale: 1:13,464

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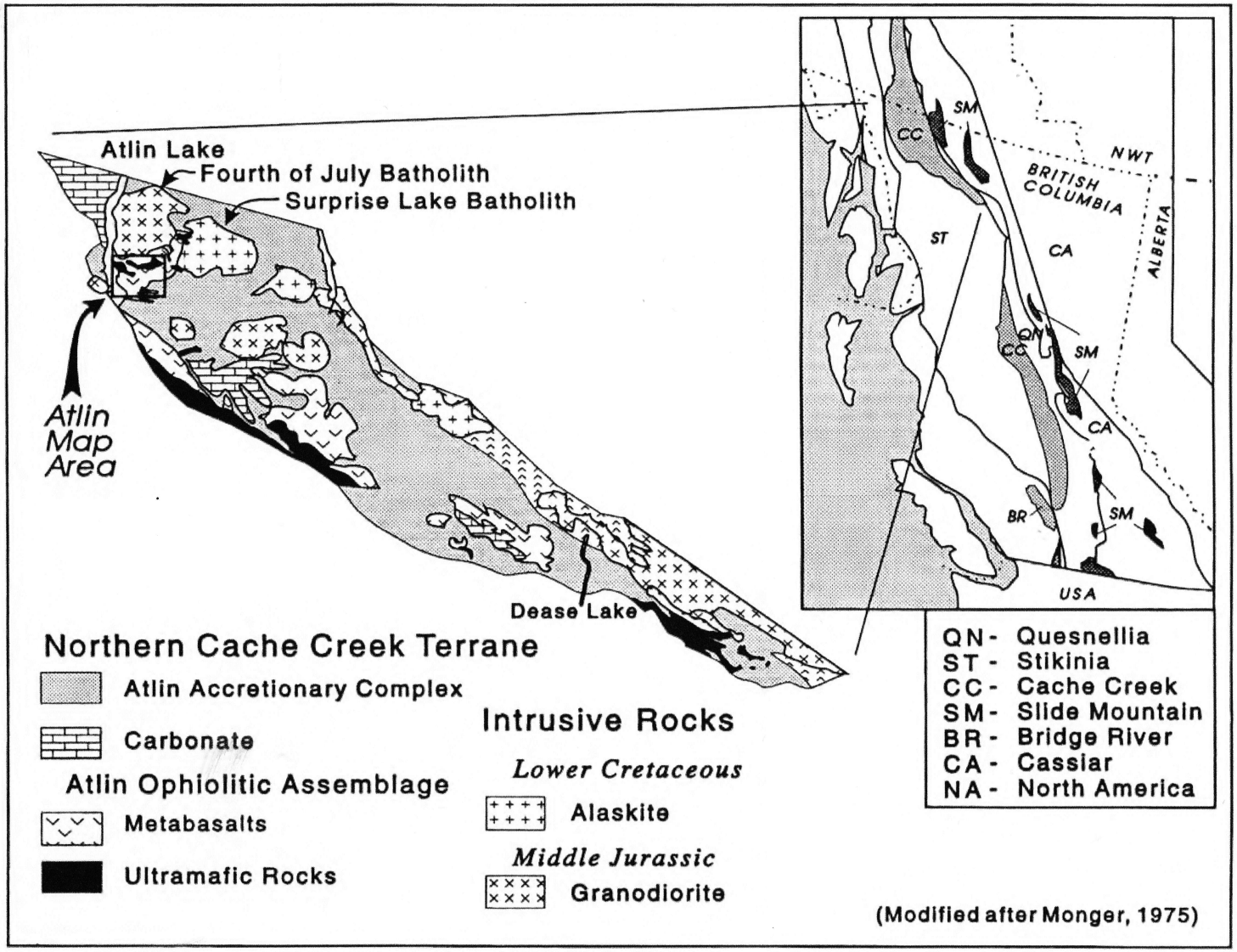
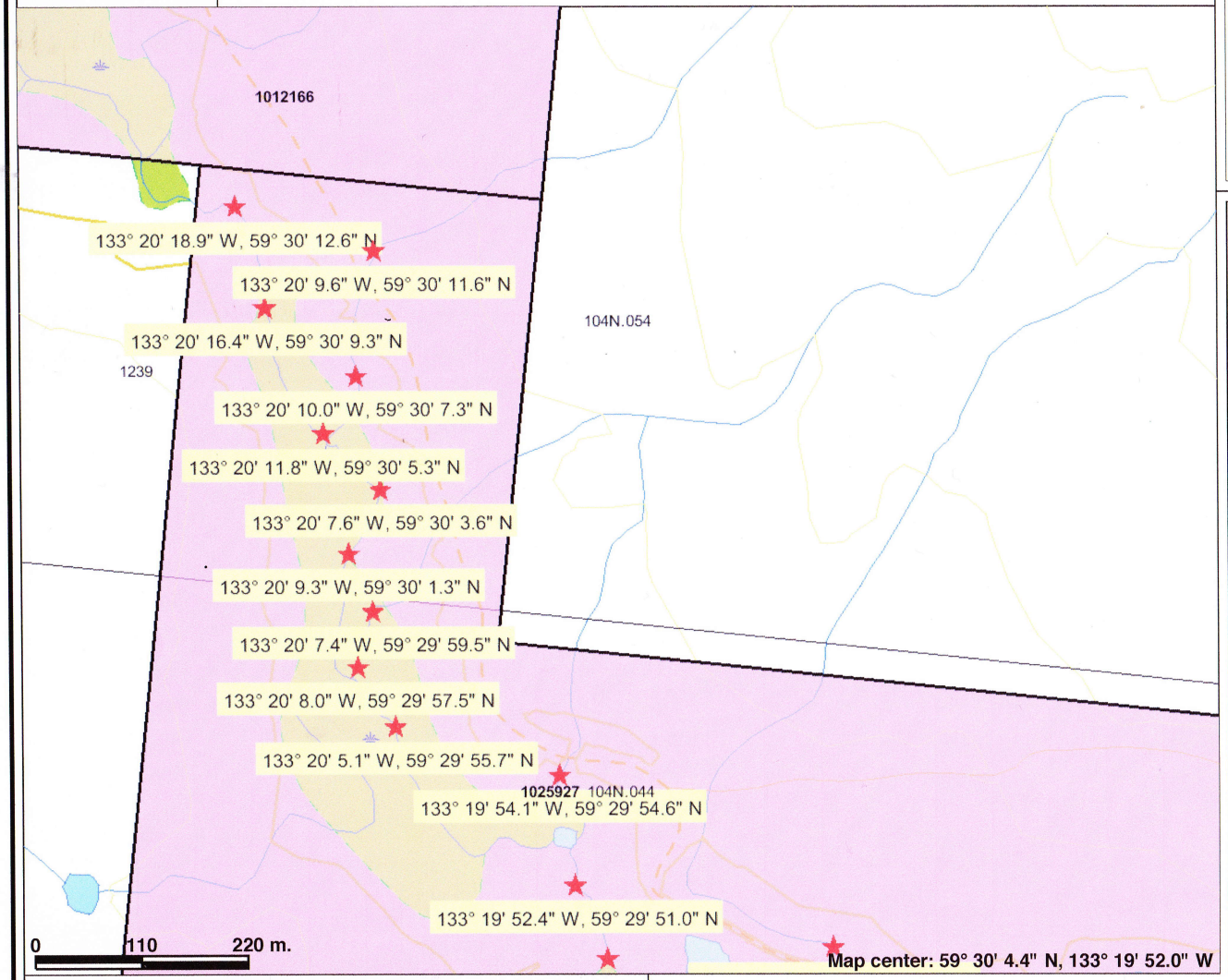
Figure 3: Atlin Regional Geology
(Northern Cache Creek Terrane map after Monger, 1977A)



North West Sampling Map - Claim # 1025927



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands
- Placer Tenure (current)
- Placer Claim
- Placer Lease
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (TRIM)
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Areaof Exclusion
- Areaof Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)
- Airfield

Scale: 1:6,209

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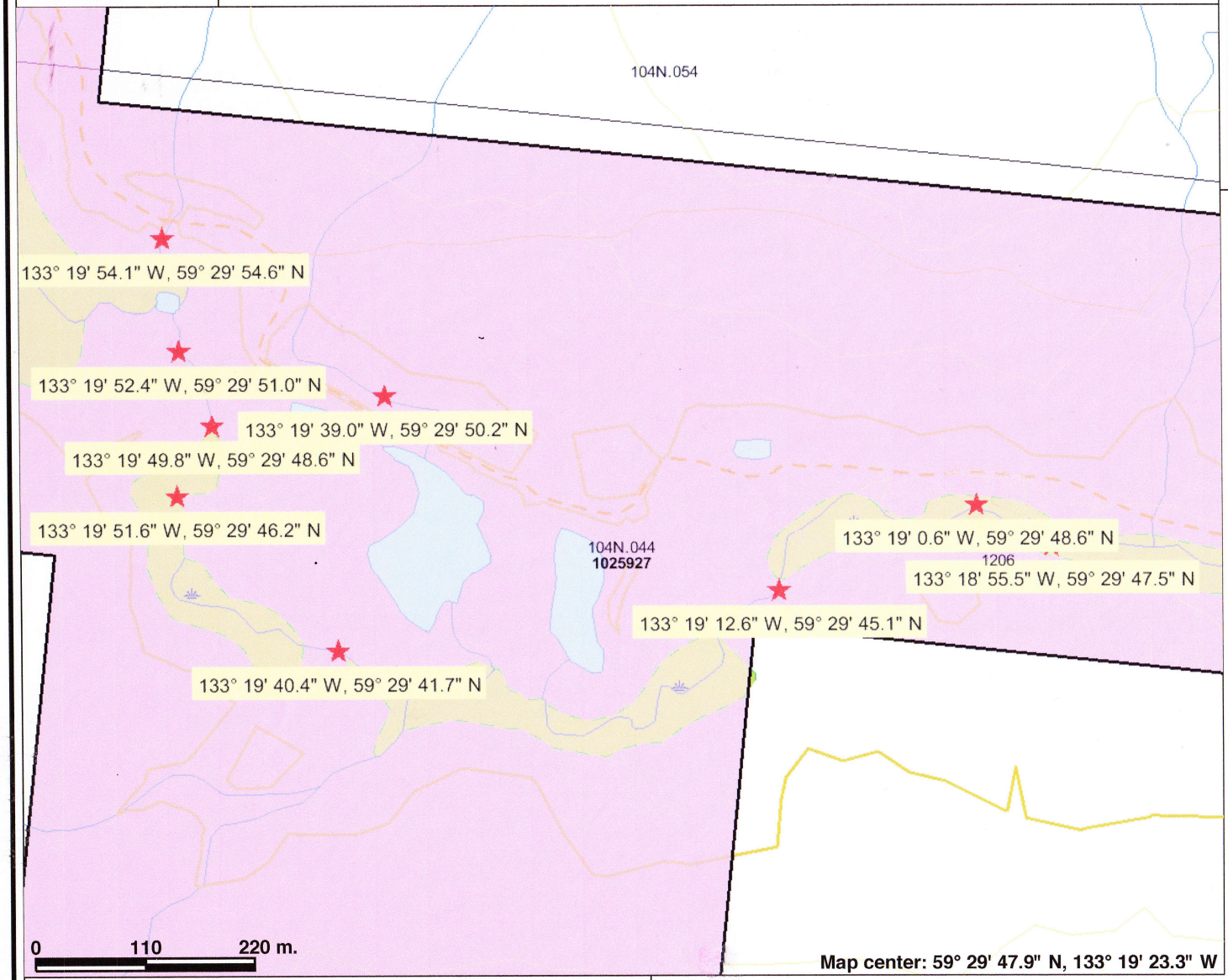
Centre Sampling Map - Claim # 1025927



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands

Placer Tenure (current)

- Placer Claim
- Placer Lease
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid

Contours (TRIM)

- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Areaof Exclusion
- Areaof Indefinite Contours

Annotation (1:20K)

Transportation - Points (TRIM)

- Helipad

Transportation - Lines (TRIM)

- Airfield

N

Scale: 1:6,074

Map center: 59° 29' 47.9" N, 133° 19' 23.3" W

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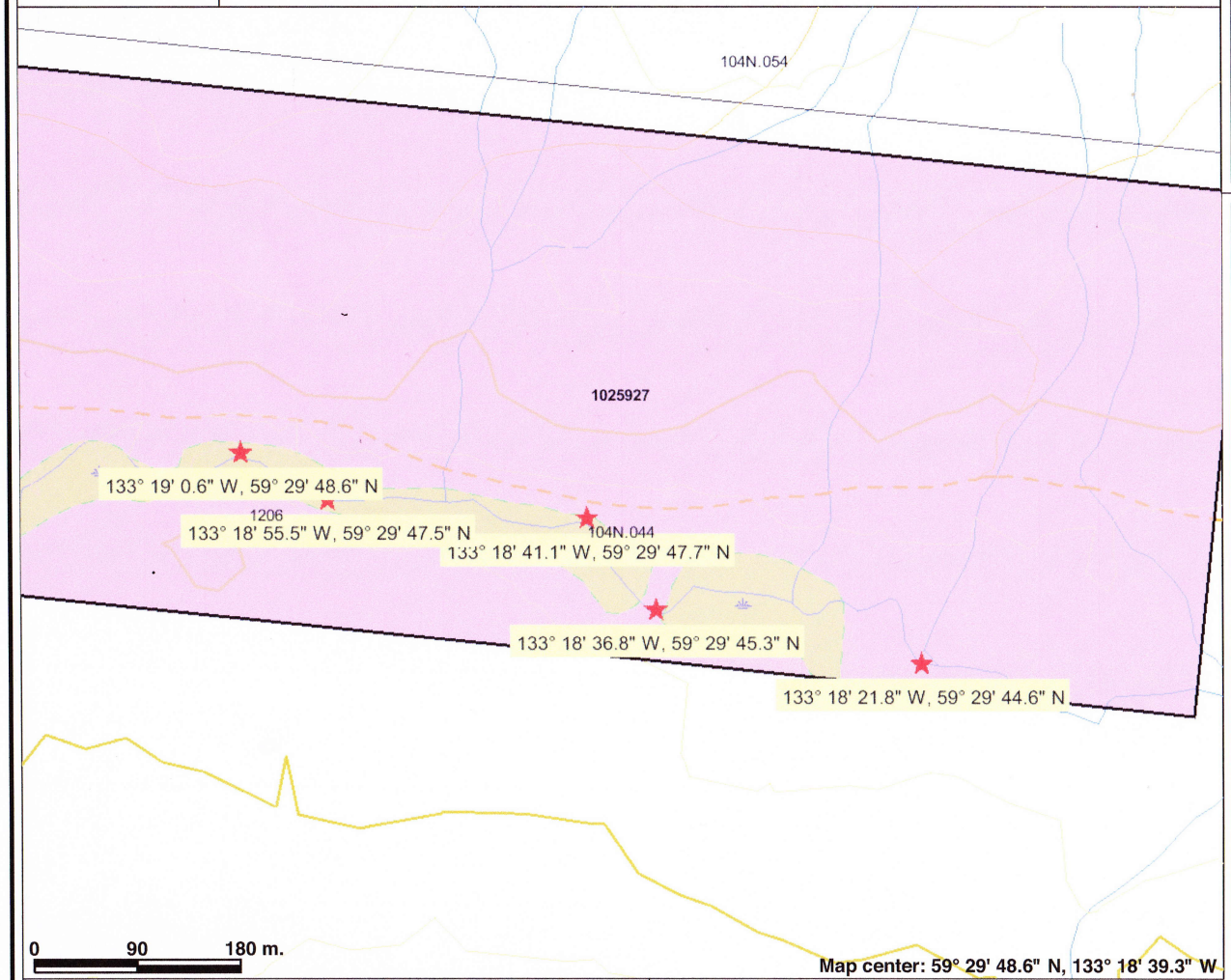
East Sampling Map - Claim #1025927



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands

Placer Tenure (current)

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- First Nations Treaty Lands
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Contours (TRIM)

- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Areaof Exclusion
- Areaof Indefinite Contours

Annotation (1:20K)

Transportation - Points (TRIM)

- Helipad

Transportation - Lines (TRIM)

- Airfield

N

Scale: 1:5,264

Map center: 59° 29' 48.6" N, 133° 18' 39.3" W

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