

We are committed to providing <u>accessible customer service</u>. If you need accessible formats or communications supports, please <u>contact us</u>.

Nous tenons à améliorer <u>l'accessibilité des services à la clientèle</u>. Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez <u>nous contacter</u>.

ASSESSMENT WORK REPORT 2019-2021

CROWN JEWEL PROPERTY - AMETHYST CREEK PROPERTY

TARTAN LAKE AREA

THUNDER BAY MINING DIVISION

CLAIMS: 107861, 211604, 325287, 264037, 171976, 164761

Author: Aki K. Siltamäki (prospector, claims owner)

Introduction

The construction of new logging roads in the early 1990's in the Tartan Lake Area northeast of the city of Thunder Bay, Ontario made the area accessible for exploration. A few local prospectors, this author included, took advantage of the opportunity to prospect this newly accessible area. An occurrence of amethyst approximately 8.5 km east of Hwy 527 at an unnamed creek ('Amethyst Creek') was discovered along one of these roads (then new forest access road (Magone Rd.). It is unknown who made the initial discovery, but originally D. Christianson (deceased) of Thunder Bay held a single claim on the amethyst occurrence. No work was reported and the claim was allowed to expire.

Since that time, A. Siltamäki (this author) began prospecting the area for amethyst deposits.

Numerous occurrences of amethyst, the first one in the fall of 1990 and then in subsequent years were found by him in the area. Claims were staked on the prospective ground and were worked and maintained over the years to evolve into what are now the Crown Jewel and Amethyst Creek properties.

Historic work has been filed as assessment work by this author and other amethyst mining claim operators in the area.

Mining for amethyst was previously done on a portion of the 'Amethyst Creek' deposit under a lease at the former Blue Star amethyst quarry and is still ongoing at the leased claim of Purple Haze amethyst mine. This mine is located on the eastern extension of the 'Amethyst Creek' deposit.

Amethyst is also currently mined under an aggregate resources permit at the Auralite amethyst mine.

Location and Access

The mining claims are located on crown land approximately up to 40 km (driving) northeast of the City of Thunder Bay in unsurveyed territory north of MacGregor Township.

Access is by motor vehicle travelling east from Thunder Bay along Hwy 11/17 to Hwy 527, then north along Hwy 527 approximately 15 km to Magone Road, then >8 km east on Magone (Amethyst) Road to the Amethyst Creek Property. The access trail to claim 107861 of the Crown Jewel Property is 13 km east from Hwy 527; the trail to claim 211604 is a little further at >14 km, measured east from highway 527.

UTM coordinates for the claims are: Claim 107861 - NAD83 U16 354704E, 5389778N Claim 211604 - NAD83 U16 355703E, 5390296N

Geology

The area of the mining claims is predominantly underlain by Precambrian-age Archean felsic intrusive rocks (pink monzonite granite) of the MacKenzie Stock. Interspersed within the granite are small areas of metasedimentary rock (gray quartz-mica schist) where it is in contact with the granitic rocks. The metasedimentary rock unit is prevalent in the area north of the mining claims in the Escape Lake Road area.

The topography is rugged and hilly with abundant outcrop and elevations as high as 550 meters ASL. Vegetation is mixed boreal forest and brush with overburden consisting of glacial till, gravel, boulders, humus, muskeg (in low ground). Some of the logged areas have been re-planted with evergreen softwoods, while some areas have been allowed to re-seed naturally.

The secondary (post-logging) growth is nearly 3 decades old.

Mineralization

Amethystine quartz occurs along several north-east trending faults in the area. The quartz and amethyst are found as hydro-thermal deposits filling fractures in the granite as well as in small areas of the adjacent mica schist where it is in contact with the faulted intrusive rocks. Diverse colours of quartz (clear, white, purple (amethyst), smoky and green (prasiolite) are present in veins, crystallized in vugs and in brecciated zones.

Minerals identified as inclusions include: hematite, disseminated pyrite and chalcopyrite, rutile or (goethite, marcasite?).

Some minor malachite occurs as a thin layer in places, coating fractures where disseminated chalcopyrite was seen. The mineralized fault zone has been traced along outcrops for a distance of >2650 meters and up to 35 meters in width at claim 107861. Samples of mineral specimens, lapidary stone and landscape/garden rock have been collected from these amethyst deposits.

Current Work

Physical (manual) Work:

claim 211604: digging test pits, collecting samples, trail-cutting and maintenance

claim 107861: digging test pits, collecting samples, trail-cutting and maintenance

Description of samples collected: quartz/amethyst-bearing rocks with matrix of granite or mica schist

claim 171976: washout repair of main access road

claim 264037: trail-cutting, GPS traverse for trail plan to new proposed work site 1

claim 325287: trail-cutting, stripping and outcrop-washing at new work site 2

Transporting of samples was for storage at my country property.

Equipment Used

Transporting: GMC VANDURA 2500, YAMAHA BIG BEAR ATV

Work tools: chain saw, brushing loppers, prospector pick, Geotul*, shovel, hoe, water bucket for outcrop washing

GPS unit: Garmin GPSmap 62s

Camera: Canon *PowerShot A590is*Samsung phone/camera

Report prepared by qualified person:

Aki K. Siltamäki (Claim Holder)
Licence # E33284
Client # 194389

Contents

P	age
Introduction	1
Location, Geology, Mineralization	2
Current Work, Equipment Used and Author Signature	3
Contents	4
Fig. 1: Location map	5
Fig. 2: Regional Location map	6
Fig. 3: Crown Jewel Property map	7
Fig. 4: Amethyst Creek Property work areas map	8
Fig. 5: Amethyst Creek Property claim 325287 new stripping location	9
Fig. 6: Claims 325287, 264037 work areas, legacy claims	10
Fig. 7: Photo of new stripping at claim 325287 1	l 1
Fig. 8 Sketch of new stripping at claim 3252871	.2
Fig. 9 Satellite image of claim 211604 work sites 1	13
Fig. 10 Sketch of tp5 test pit at claim 107861 1	.4
Fig. 11 Photo of tp4 test pit, claim 107861 1	.5
Fig. 12 Satellite image of claim 107861 work area	16
Fig. 13 Sketch of NE slope test pits 1	L 7
Fig. 14 Sketch of tp4 test pit, claim 2116041	.8
Fig. 15 Sketch of tp1 test pit, claim 211604 1	.9
Fig. 16 Sketch of tp3 test pit, claim 2116042	
Fig. 17 GPS track of proposed trail planning to work site 1 2	21

Fig. 18	Sketch of tp2 test pit, claim 211604	22
Fig. 19	Photo of tp2 test pit, claim 211604	23
Fig. 20	Photo of tp5 test pit, claim 107861	24
Fig. 21	Sketch of test pit, claim 325287	25
Fig. 22	Photo of transported Crown Jewel Property samples	26
Work L	og and Costs	27

Fig. 1 Location Map



Fig. 2 Regional Location Map

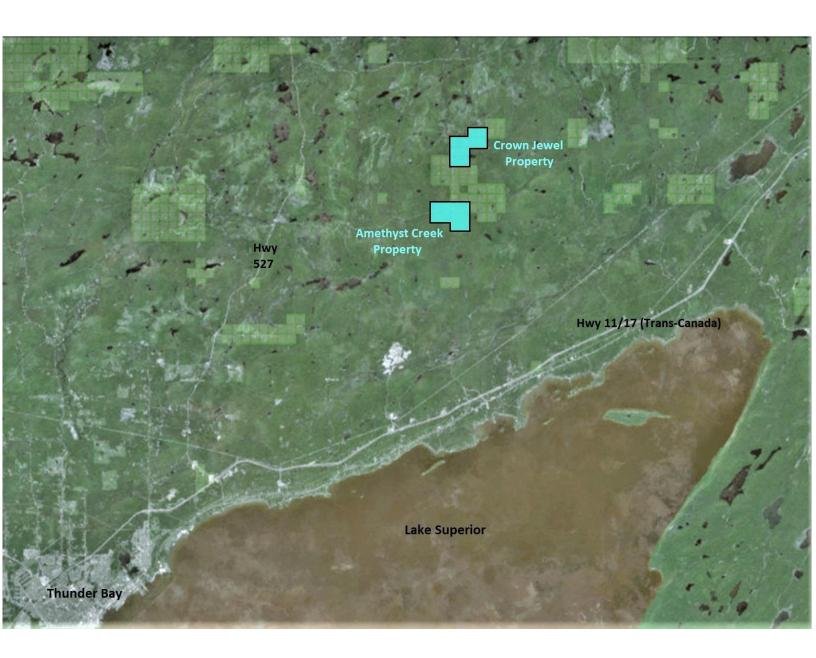


Fig. 3 Crown Jewel Property map

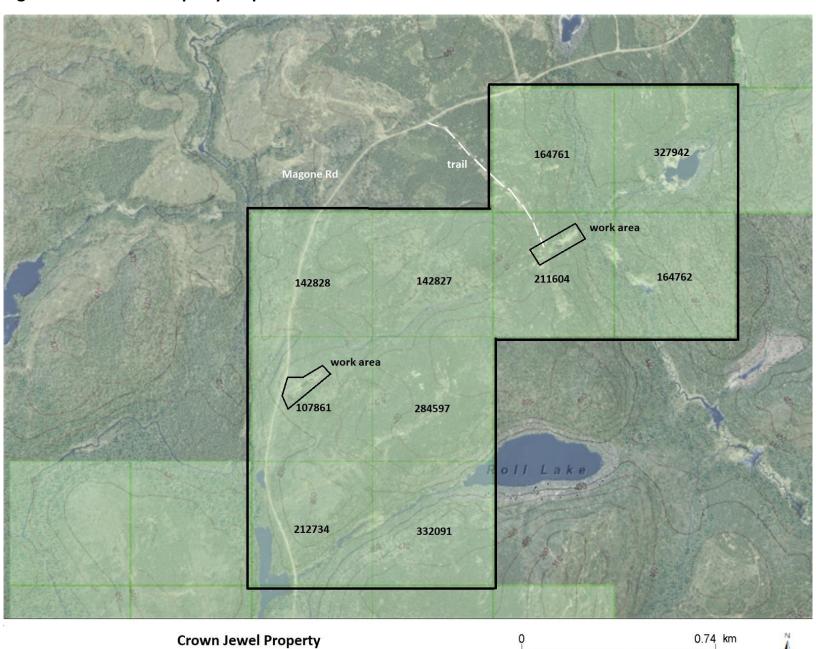
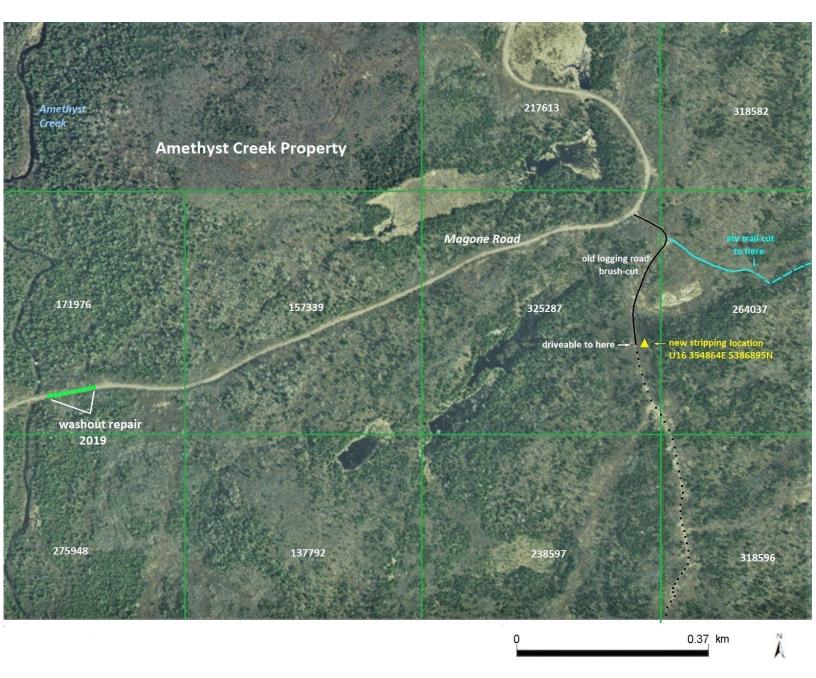


Fig. 4 Amethyst Creek Property work areas map



Amethyst Creek Property claim 325287 cut trail new stripping site U16 354864E 538 test pit 0.09 km

Fig. 5 Amethyst Creek Property claim 325287 new stripping location

Fig. 6 Claims 325287, 264037 work areas (with legacy claims shown)

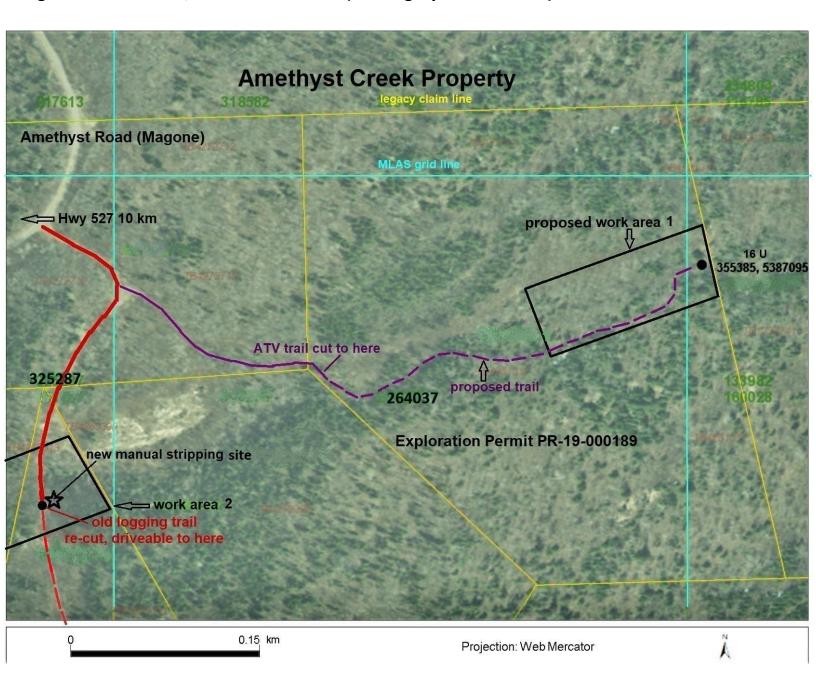


Fig. 7 Photo of new stripping, claim325287

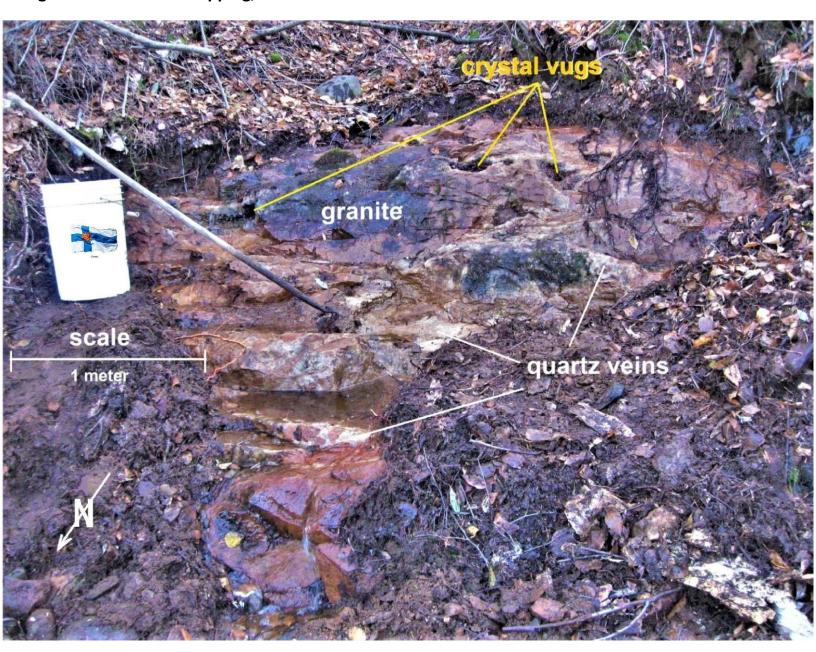


Fig. 8 Sketch of new stripping at claim 325287

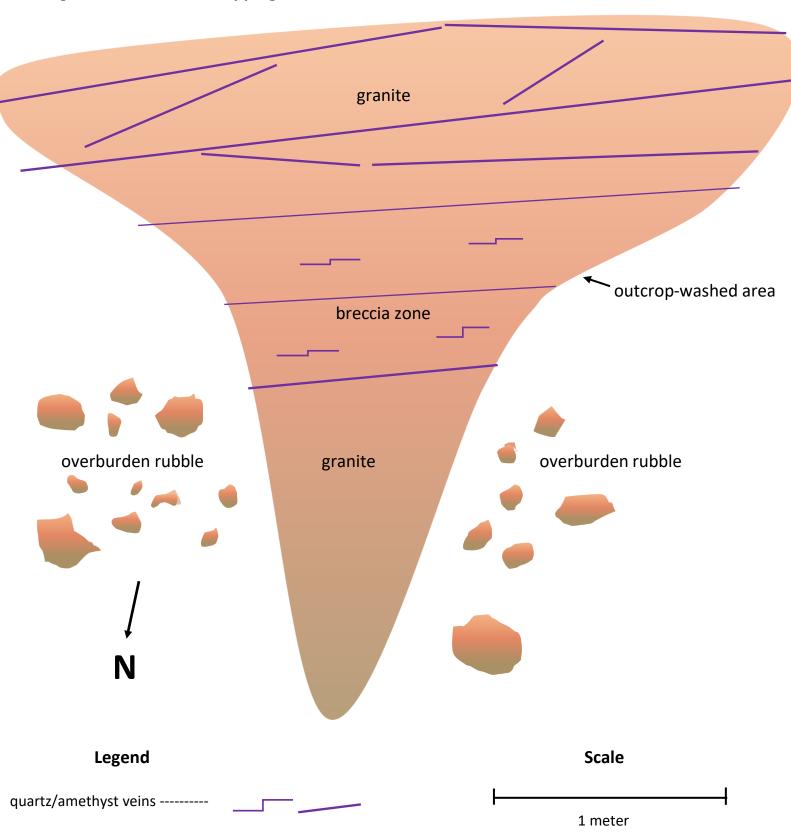


Fig. 9 Satellite image of claim 211604 work sites



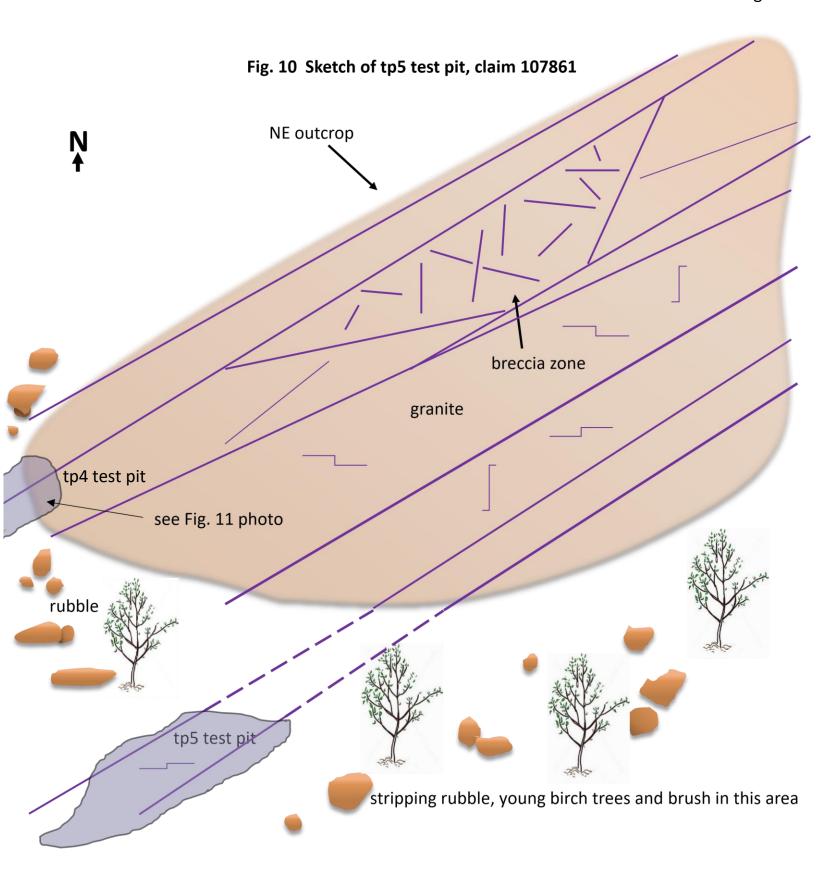


Fig. 11 Photo of tp4 test pit, claim 107861



Crown Jewel Property claim 107861 to here Hwy 527 13 km tp4 tp5 access trail Magone Road Legend historic trenches/test pits tp4, tp5 new test pits Crown Jewel Property claim 107861 work site 0.05 km

Fig. 12 Satellite image of claim 107861 work area

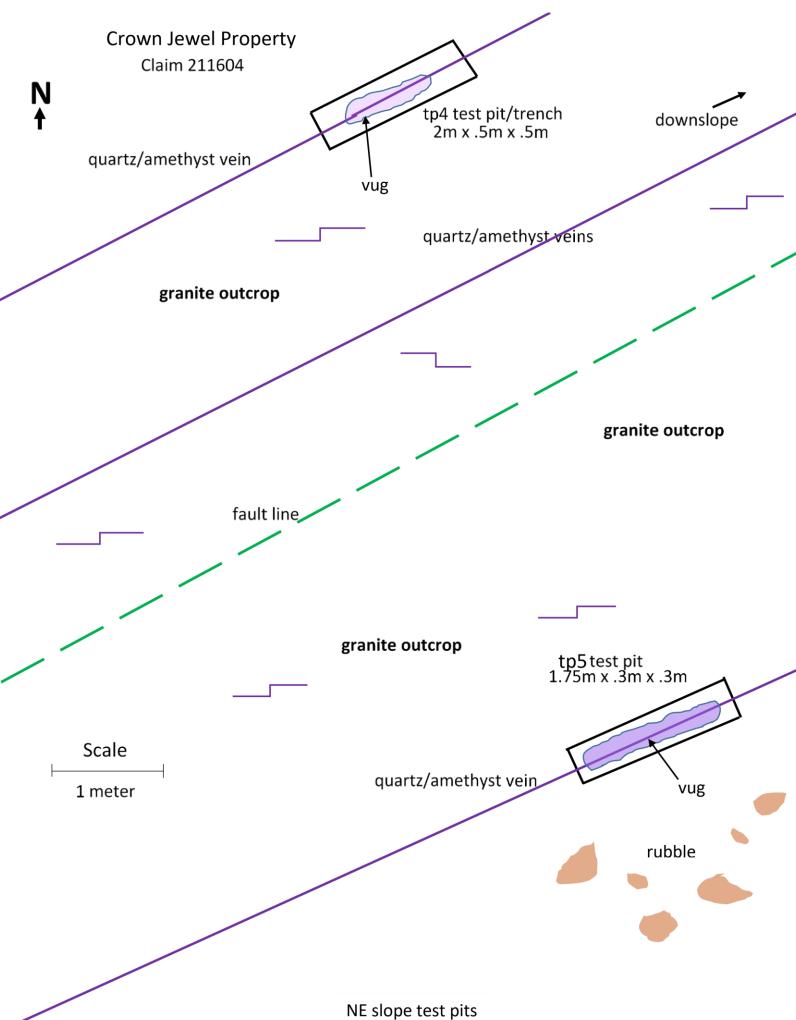


Fig. 14 Sketch of tp4 test pit, claim 211604

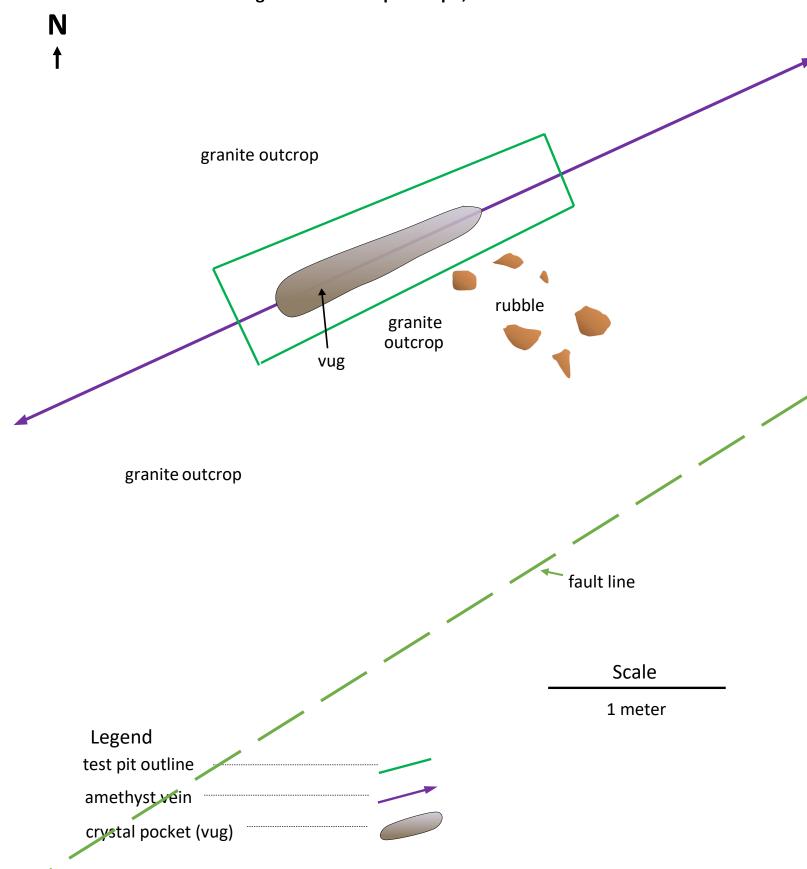
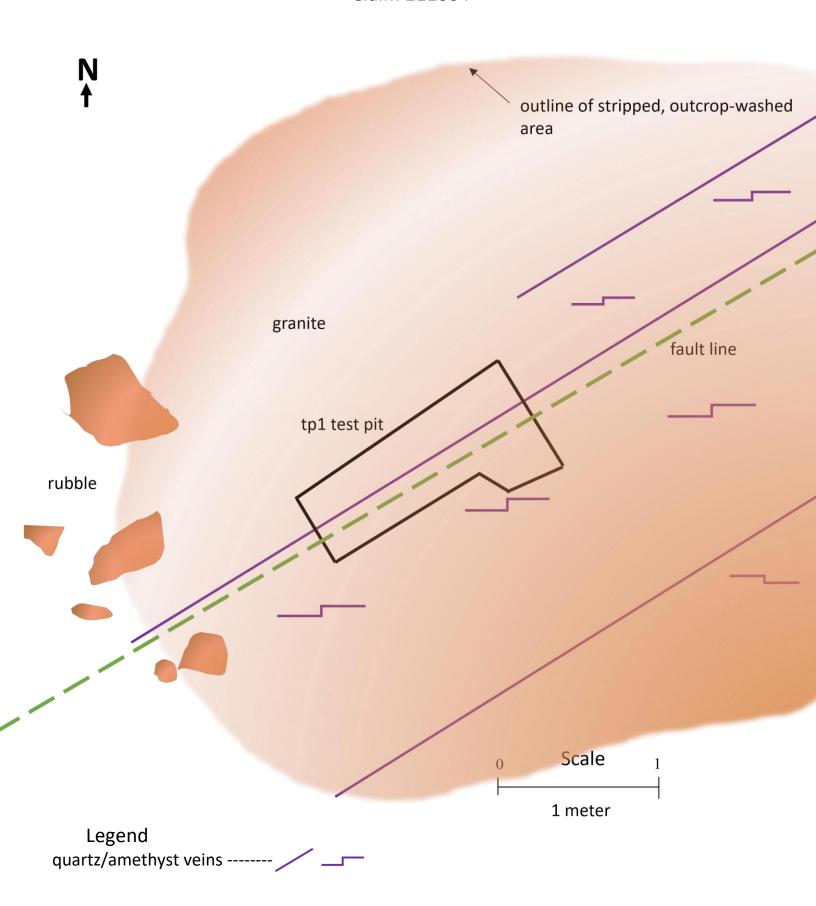
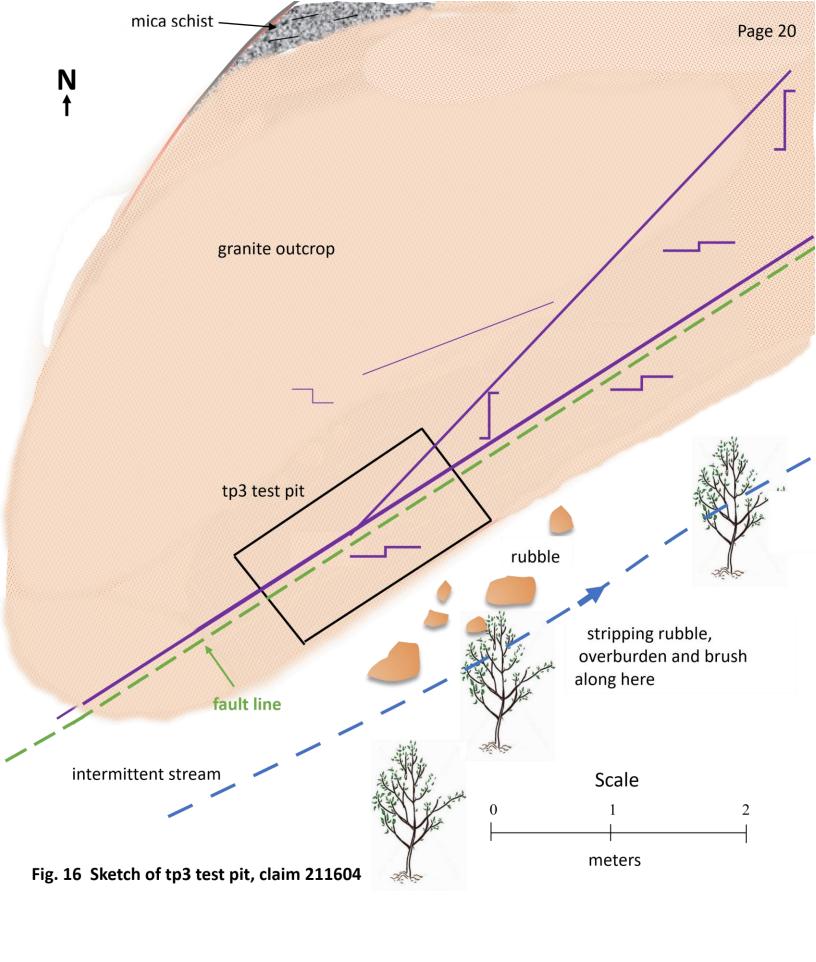


Fig. 15 Sketch of tp1 test pit

Claim 211604





Legend quartz/amethyst veins /____

legacy claims 🕓 4272712 proposed work site 1 GPS track of trail planning traverse Nov. 6 2019

Fig. 17 GPS track of proposed trail planning to work site 1

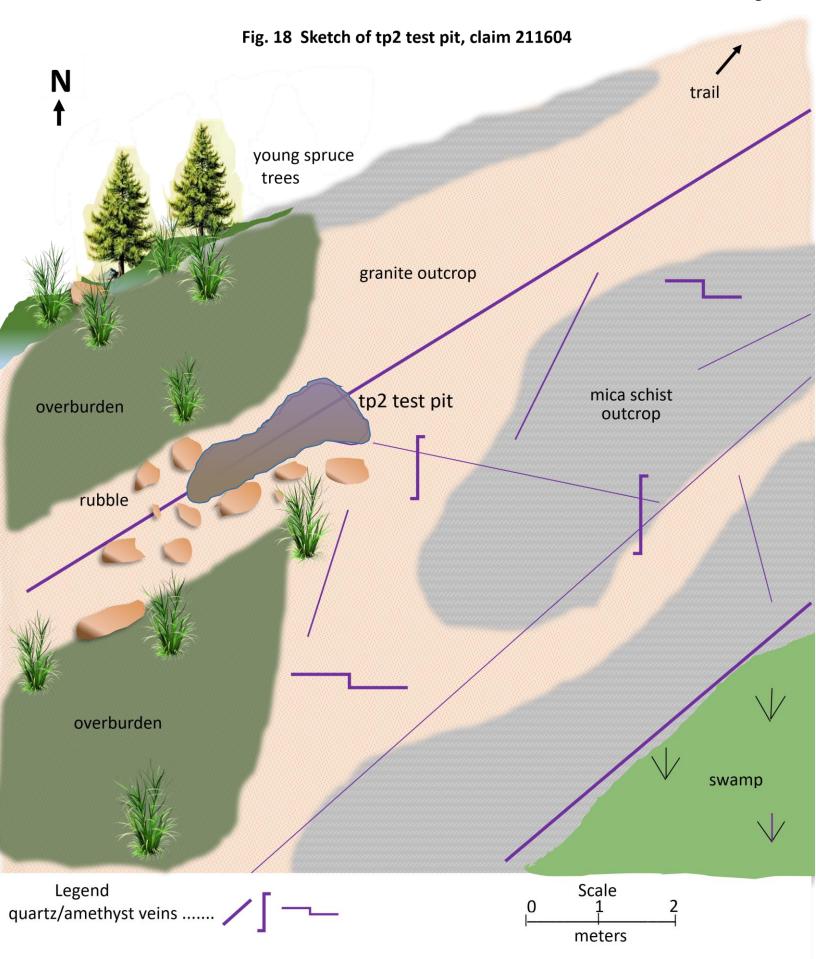


Fig. 19 Photo of tp2 test pit, claim 211604



Fig. 20 Photo of tp5 test pit, claim 107861



Fig. 21 Sketch of test pit, claim 325287

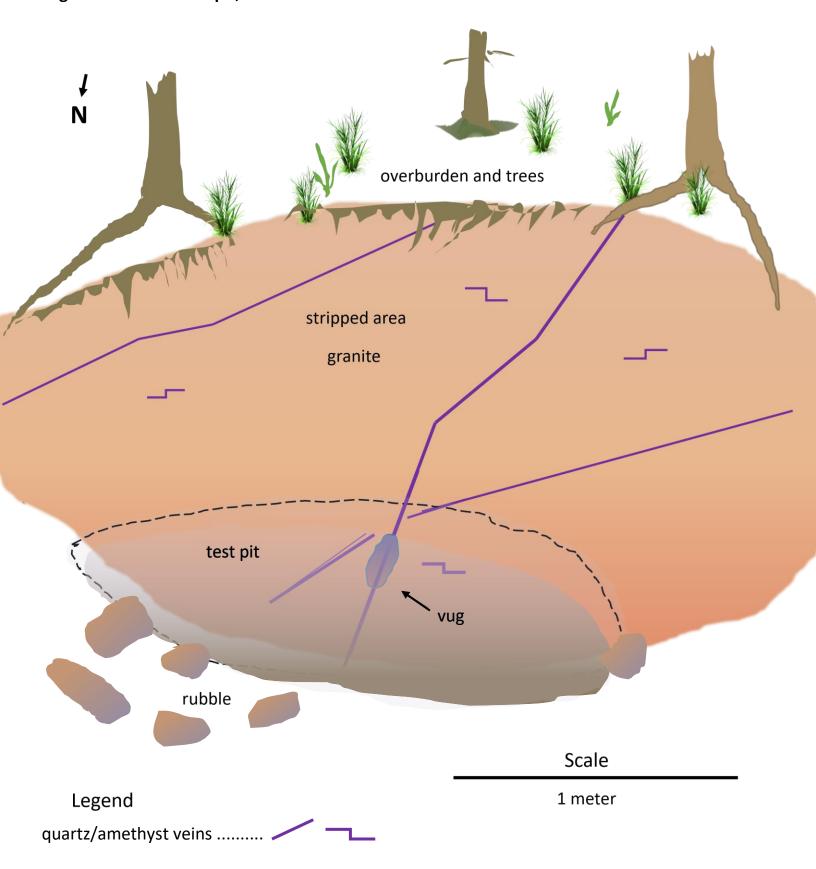


Fig. 22 Photos of a portion of transported Crown Jewel Property samples





Work Log and Costs

Personnel Amounts: Supervisor \$500/day, labourer (tech.) \$450/day

Date	Claim	Personnel	Work Type	Work Performed	Days and Rate	Vehicle km and Rate	ATV Rate	Chain Saw Rate	GPS unit	Food, Bev.	Costs
May 15/19	107861 211604	A. Siltamäki supervisor, claim owner A. Hämäläinen (tech)	Physical	Start 2019 Work Season recon trip to claims, check access road conditions (note: washout repair required in two places) manual work at claim 107861	1 day \$950	2 vehicles to Magone Rd. 1 work vehicle the rest of way 108 km @ \$0.50/km				\$50	\$1054
June 7/19	107861	A. Siltamäki supervisor, claim owner	Physical	work site securitysite planningmanual work	1 day \$500	84 km @ \$0.50/km				\$25	\$567
June 13/19	107861	A. Siltamäki supervisor, claim owner	Physical	manual work: stripping, digging at NE outcrop test pits	1 day \$500	84 km \$0.50/km				\$25	\$567
June 24/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	transport Crown Jewel Property samples to country storage	1 day \$500	22 km @ \$0.50/km				\$25	\$536
June 25/19	171976	A. Siltamäki supervisor, claim owner	Physical	trip to Crown Jewel, Amethyst Creek Properties manual work: claim 171976, washout repair on main access road	1 day \$500	92 km @ \$0.50/km				\$25	\$568
July 1/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	transport Crown Jewel Property samples to country storage	.5 day \$250	22 km @ \$0.50/km				\$13	\$274
July 5/19	107861	A. Siltamäki supervisor, claim owner	Physical	- recon trip - work site security - manual work: digging at NE outcrop test pits, collect samples	1 day \$500	84 km \$0.50/km				\$25	\$567
July 9/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	trip to claims 107861, 211604 manual work: claim 107861, digging at NE outcrop, sampling	1 day \$500	88 km \$0.50/km				\$25	\$569
July 11/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	transport Crown Jewel Property samples to country storage	.5 day \$250	22 km @ \$0.50/km				\$13	\$274
July 19/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	transport Crown Jewel Property samples to country storage	1 day \$500	22 km @ \$0.50/km				\$25	\$536
July 23/19	107861 211604	A. Siltamäki supervisor, claim owner	other	travel to ENDM office to file exploration permit applications for Crown Jewel, Amethyst Creek Properties - assisted by Mark Obrien, Colin Hovi of ENDM staff	.5 day \$250	20 km @ \$0.50/km				\$13	\$273

July 27/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	work site security, evidence of thieves and vandals at work sites manual work: stripping, digging, sampling at test pits area	1 day \$500	88 km \$0.50/km			\$25	\$569
Aug. 2/19	107861	A. Siltamäki supervisor, claim owner	other	travel to FWFN THP Variety and Gas for prospect fuel	.2 day \$125	38 km @ \$0.50/km			\$5	\$149
Aug. 8/19	107861	A. Siltamäki supervisor, claim owner	Physical	trip to claim 107861 manual work: digging at test pits	1 day \$500	84 km \$0.50/km			\$25	\$567
Aug. 9/19	171976 325287	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	travel to Amethyst Creek Property manual work: claim 171976 - continued washout repair claim 325287: brush-cutting access trail, digging at test pit and new stripping site	1 day \$1400 for 3 persons	82 km @ \$0.50/km	chain saw \$45/day		\$75 for 3 persons	\$1636
Aug. 24/19	107861 211604	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	transport Crown Jewel Property samples to country storage, work on rock storage shelter	1 day \$1400 for 3 persons	22 km @ \$0.50/km			\$75 for 3 persons	\$1486
Aug. 27/19	107861	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	manual work: digging at test pits, NE outcrop	1 day \$1400 for 3 persons	82 km @ \$0.50/km			\$75 for 3 persons	\$1516
Sept. 8/19	107861 211604	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	transport Crown Jewel Property samples to country storage	.5 day \$700 for 3 persons	22 km @ \$0.50/km			\$38 for 3 persons	\$749
Sept. 13/19	107861 211604	A. Siltamäki supervisor, claim owner	Physical	recon. trip, work site security patrol manual work: claim 107861 stripping, test pit digging, collect samples	1 day \$500	88 km \$0.50/km			\$25	\$569
Oct. 19/19	171976 325287	A. Siltamäki supervisor, claim owner	other	travel to F.W. First Nation THP Variety and Gas for prospect fuel	.2 day \$125	38 km \$0.50/km			\$5	\$149
Oct. 20/19	325287	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	travel to Amethyst Creek Property manual work: cutting trail to new stripping site, stripping	1 day \$1400 for 3 persons	86 km @ \$0.50/km	chain saw \$45/day		\$75 for 3 persons	\$1553
Oct. 26/19	325287	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	travel to Amethyst Creek Property manual work: cutting trail to new stripping site, stripping, digging water hole for outcrop-washing	1 day \$1400 for 3 persons	86 km @ \$0.50/km	chain saw \$45/day	GPS \$45/day	\$75 for 3 persons	\$1598
Nov. 1/19	211604 164761	A. Siltamäki supervisor, claim owner	Physical	travel to Crown Jewel Property manual work: brush-cutting access trails	1 day \$500	88 km @ \$0.50/km			\$25	\$569

Nov. 4/19	325287	A. Siltamäki supervisor, claim owner	other	travel to Fort William First Nation THP Variety and Gas for prospect fuel	.2 day \$125	38 km \$0.50			\$5	\$149
Nov. 6/19	264037	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	travel to Amethyst Creek Property claim 264037; manual work trail cutting, planning/flagging trail to new proposed work site 1	1 day \$1400 for 3 persons	80 km \$0.50/km		GPS \$45/day	\$75	\$1520
Nov 16/19	107861	A. Siltamäki supervisor, claim owner	other	pick up rock storage shelving for new rock storage	.2 day \$125	12 km \$0.50/km			\$5	\$136
Dec. 3/19	107861	A. Siltamäki supervisor, claim owner	other	attempt travel to amethyst claims new snow prevents access	.5 day \$250	65 km @ \$0.50/km			\$13	\$296
Dec. 16/19	107861	A. Siltamäki supervisor, claim owner	other	late season recon to claim 107861 work site - atv used part of way due to snow	1 day \$500	84 km @ \$0.50/km	ATV \$85/day		\$25	\$652
Jan. 15/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Jan, 20/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Feb. 3/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Feb. 7/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Feb. 8/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Feb. 9/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250				\$13	\$263
Feb. 10/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250				\$13	\$263

Feb. 11/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb. 12/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 13/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb. 14/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb 15/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb 19/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$25	\$525
Feb 20/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb 21/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Apr 14/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Apr 15/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Apr 22/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
1									

Apr 23/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
May 4/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
May 5/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
June 2/20	325287	A. Siltamäki supervisor K. Siltamäki (tech	Physical	first trip of work season - recon to 211604 trail - manual work at 325287: stripping, atv trail-cutting	1 day 2 persons \$950		chain saw \$45/day		\$50	\$1089
July 17- 27/20	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation maps	3 days \$1500				\$75	\$1575
Aug. 9/20	325287	A. Siltamäki supervisor K. Siltamäki (tech) S. Siltamäki (tech)	Physical	travel to amethyst claims - recon work sites - manual work: claim 325287, stripping, brush-cutting	1 day \$1400 for 3 persons	94 km @ \$0.50/km			\$75 for 3 persons	\$1522
Aug. 24/20	107861 211604	A. Siltamäki supervisor C. White (tech) K.White (tech) H. Mcdonald (tech)	Physical	A. Siltamäki manual work at 107861 techs digging at 211604 test pits	1 day \$1850 for 4 persons	2 vehicles 92 km x 2 = 184 km @ \$0.50/km			\$100	\$2042
Sept. 5/20	107861	A. Siltamäki supervisor, claim owner	Physical	manual work: digging at tp4 test pit	1 day \$500	92 km @ \$0.50/km			\$25	\$569
Dec. 9/20	107861	A. Siltamäki supervisor, claim owner	Physical	end of season recon to 107861 work site manual work: brush-cutting access trail	1 day \$500	84 km @ \$0.50/km			\$25	\$569
Feb. 4/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
Feb. 5/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500				\$25	\$525
1										

Feb. 7/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 10/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb. 11/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	.5 day \$250			\$13	\$263
Feb. 13/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 14/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 15/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 16/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 17/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 18/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 22/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 24/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525

Feb. 25/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Feb. 26/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525
Mar. 1/21	107861 164761 211604 171796 325287 264037	A. Siltamäki supervisor, claim owner	other	work report preparation	1 day \$500			\$25	\$525

Total = \$42,784

Assessment Credits to save as Exploration Reserve per Claim

Claim No.

107861	211604	325287	264037	171976	164761
\$14,567	\$6,584	\$10,112	\$4,409	\$3,939	\$3,174

Total = \$42,785