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Geology of the mining claims of Fern Elizabeth Exploration Ltd Atikokan, Ontario

Denver Stone

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Contents

	3
	3
	3
	5
	6
	8
	13
	17
	19

Figures and Tables

Figure 1	Location and access		5
Table 1	Characteristics of supracrustal and plutonic rock	S	9
Figure 2	Claim map		10
Figure 3	Detail geology of the Elizabeth Mine	a .	11
Figure 4	Visible gold from the Bernie Mitch showing		12
Figure 5	No 1 shaft of the Elizabeth Mine		12
Figure 6	Quartz vein in tonalite		13
Table 2	Gold Assays		14
Figure 7	Proportional dot diagram of gold assays		18

OFFICE DEPOT

Location and Access

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The Elizabeth Mine area is located approximately 10 km northwest of Atikokan, Ontario. It is accessible by a secondary road (Valerie Falls Road) extending south from Highway 622 as shown in Figure 1.

Geologically, the Elizabeth Mine is situated at the west margin of the Steep Rock greenstone belt. All rocks are Archean in age and part of the western Superior Province of the Canadian Shield.

Survey Details

The field work was done on a group of 12 mining claims and a block of patented mining claims held by Fern Elizabeth Exploration Ltd in the greater Righteye Lake area (Figure 2). Principal holder of the mining claims is Robert Moffatt of Box 13 Atikokan, ON, POT 1CO. Other people hold one claim within the surveyed area (No. 4221518 of Figure 2) and several claims at margins of the surveyed area.

The survey was completed by Denver Stone (PhD, PEng) of RR#2 Bruce Mines, ON, POR 1CO and Wayne Cornel, a student at Cambrian College, between May 23 and August 29 2015. The report was written by Denver Stone and finished September 15 2015. Signature of the author is included as an appendix.

History of Exploration

Historic exploration for gold and development were focused on 3 principal areas including the Elizabeth Mine, Adlt and Rebair Occurrence (see locations in Figure 2) within the Fern Elizabeth claim group. Shafts were sunk and no-doubt extensive prospecting was done in these areas with the most extensive early work done at the Elizabeth Mine. The following history, including the discovery and previous exploration work on the Elizabeth property by various owners is modified from Larouche and Clark (1988).

- 1900 Anglo Canadian Gold Estates
 - -discovery of gold
 - -minor trenching and diamond drilling
- 1902-13 Elizabeth Gold Mines Ltd
 - -2 shafts sunk to 270' and 110'
 - -1205 feet of lateral work on 2 levels
 - -10-stamp mill constructed
 - -411 ounces of gold produced
 - -total ore milled to reported gold produced is questionable

PAGE 06/30

- 1923 Golden Mining Co. Ltd -purchased property
- T.L. Tanton, Geological Survey of Canada -visited the mine site and estimated 20,000 tons of reserves at 0.40 ounces gold per ton
- 1935-37 Elizabeth Gold Mines Ltd -dewatered the workings and did 1591 feet of diamond drilling -constructed a 25 ton per day mill
- 1937-70 Various reports with no detailed work
- 1973 University of Toronto -seismic test in #2 shaft
- Cornel-Pope Exp. Co. 1974 -405 feet of diamond drilling
- 1978 M. Wicheruk options property to Fern Elizabeth Gold Mining Co. -trenching, stripping and geological mapping -589 feet of diamond drilling
- 1981 Camflo Mines Ltd -geological mapping, geochemical and geophysical work -drilled 4 boreholes (2310 feet) see approximate locations of holes in Figure 3
- 1984 **Bankit Resources Ltd** -14 boreholes totalling 1745 feet of diamond drilling
- 1985-88 Societe Miniere Mimiska Inc. -geological mapping, geochemical and geophysical work -drilled approximately 66 boreholes (see locations of some holes in Figure 3) -estimated possible reserves of 211,465 tons of ore grading 6.73 g/ton (Larouche and Clark 1988)
- 2007-13 VenCan Gold Corporation (renamed Red Pine Exploration Inc.) -soil geochemistry and 8 boreholes (see locations of some holes in Figure 3)
- Fern Elizabeth Exploration (the present study) 2015 -geologic mapping and spectrometer survey

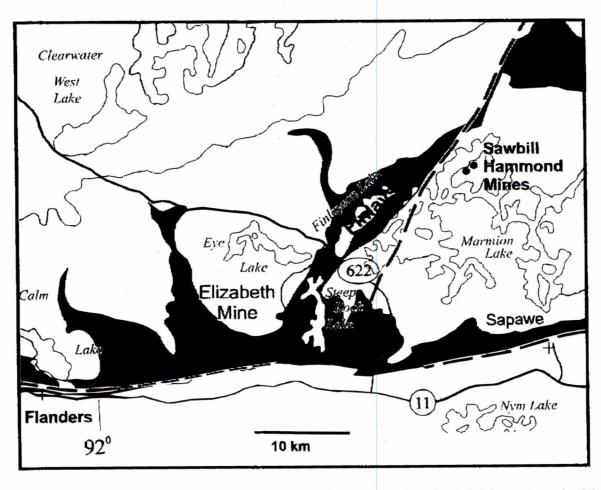


Figure 1: The Elizabeth Mine is located about 10 km NW of Atikokan, ON. It is situated at the west margin of the Steep Rock greenstone belt.

Summary of previous work and goals of the present study

Sighting of visible gold in quartz veins was the incentive for early prospecting and mining at the Elizabeth property. Although two early attempts at mining were made, these produced only a modest amount of gold probably due to a limited extent of the rich veins with the result that the property experienced periods of inactivity. In the late 1970s, a vein was discovered at the Bernie-Mitch showing (see location in Figure 3) and yielded further samples of visible gold such as in Figure 4. Considerable exploration work which included drilling of approximately 100 boreholes ensued in recent decades and was focused mainly on known veins and showings in vicinity of the original Elizabeth shafts (Figure 3). The most extensive work was done by Societe Miniere Mimiska Inc. who defined a possible reserve of 211, 465 tons of ore grading 6.73 g for 4 of the largest veins observed at surface (Larouche and Clark 1988). Discussions of drill-results (e.g. Perry 1982) typically cite a failure to trace any of the know veins over major distances. Sandberg and Cruickshank (2008) recommended further work to be focused on locating other gold occurrences which are larger than the known veins.

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The present study includes geologic mapping and sampling for gold assay. A spectrometer survey using a hand-held instrument was made at the time of mapping and is described separately. The geologic and geophysical surveys were completed over the entire claim block of Fern Elizabeth Exploration (Figure 2) largely by traversing at 50 meter intervals. A Global Positioning Device was used to control the location of observational stations, typically with an accuracy of a few meters.

The main purpose of the geologic and geophysical surveys is to identify other gold mineralization outside of the known major occurrences. Results of the geologic and assay work are shown on maps in the back pocket of this report and are discussed below.

Geology

Ten principal types of rock were identified during the survey and are distinguished in the field on the basis of textural and mineralogical criteria as well as inferences as to the age of the rock (Mesoarchean or Neoarchean). These rock-types are shown by colour and a numeric code on the accompanying maps (for example, gabbro is blue and has a code of 10g). Criteria used to identify each type of rock are listed in Table 1. Each rock type is briefly described below.

Biotite granodiorite to granite

Biotite granodiorite to granite(unit 15) is a coarse-grained, massive, white to pale pink rock that occurs as dikes and oval stocks and masses comprising about 12% of the area (Table 1 and maps in pocket). Biotite granodiorite to granite is one of the youngest rocks in the area and can contain inclusions of most other lithologies. Units of this rock can be foliated and altered to greenschist-facies minerals within a few meters of the contacts.

Biotite tonalite to granodiorite

Biotite tonalite to granodiorite (unit 12) is variably medium to coarse grained, foliated to massive and grey to white in colour occurring in complex forms ranging from dikes and irregular masses to large oval batholiths. Two types of tonalite are distinguished on the accompanying map based on their interpreted age. Early tonalite is thought to be Mesoarchean in age and at least some early tonalite is approximately coeval with intermediate to felsic metavolcanic rocks dated at 2999 Ma (Stone 2010). The early tonalite tends to be strongly foliated and occurs as complex folded dikes and irregular masses situated inside and adjacent to the greenstone belt. In contrast, late tonalite tends to be coarse grained and massive occurring in large external batholiths such as at Righteye Lake (see map in pocket). Late tonalite is cut only by granite and a few gabbro dikes.

10/23/2015 15:04

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PAGE 09/30

Mafic Intrusive Rocks

Mafic intrusive rocks (unit 10) are mainly foliated to massive hornblende gabbro of variable grain-size occurring as dikes in the area. Crosscutting relations suggest that there can be many generations of gabbroic dikes and two main subdivisions (units 10g and 10d,l) are distinguished in Table 1 and on the accompanying maps. Unit 10g is mainly a dark-green, foliated, hornblende-gabbroic rock variably altered to chlorite-bearing mineral assemblages. Small outcrops of unit 10g can be very difficult to distinguish from mafic volcanic rocks; some units of 10g may be coeval with volcanic rocks whereas other dikes of 10g crosscut volcanic rocks. A particularly large gabbro dike crosscuts the area diagonally and is the main host for gold mineralization where it is in contact with felsic plutonic rocks at the Elizabeth Mine (see Figure 3).

Unit 10d is distinguished by subequal proportions of black amphibole and white plagioclase with a massive texture. Unit 10d probably represents late Neoarchean intrusive rocks that have been metamorphosed but only mildly deformed. Notably, unit 10I represents lamprophyre dikes which are too small to be shown on the accompanying map. The lamprophyre dikes are the youngest rock in the area crosscutting granite and some quartz veins.

Mafic metavolcanic rocks

Two principal subdivisions of mafic metavolcanic rocks (units 3 and 5) are recognized in the Elizabeth Mine area and are shown by separate colours on the accompanying maps. Metavolcanic rocks of unit 3 are typically massive and dark green amphibolite locally altered to chloritic schists. Unit 3 is closely associated with intermediate metavolcanic rocks of unit 2; both are interpreted to represent Mesoarchean volcanic extrusions. In contrast, mafic metavolcanic rocks of unit 5 are mainly pillowed lavas with a medium green colour and an assemblage of plagioclase +epidote/zoisite. Unit 5 is interpreted to be part of the Witch Bay Assemblage of Neoarchean lavas (Stone 2010). Possibly, the isolated enclaves of unit 5 are klippen.

Intermediate to felsic metavolcanic rocks

Intermediate to felsic metavolcanic rocks (unit 2) are widespread in southern parts of the area. They are distinguished by a pale green to white colour, generally fine to medium grain-size and a variety of massive to foliated, fragmental and laminated textures. Although fragmental varieties are easily recognized as volcanic rocks in the field, other more massive varieties are difficult to distinguish from intrusive tonalite. Intermediate to felsic metavolcanic rocks are the only unit known to have been dated in the Elizabeth area with a U-Pb zircon age of 2999 Ma (Stone 2010) and comprise one of the oldest rocks in the area.

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PAGE 10/30

Clastic metasedimentary rocks

Clastic metasedimentary rocks (units 1 and 7) occur as secondary components of many outcrops dominated by metavolcanic rocks and as map-scale units at east side of the area (see map in pocket). Most are made up of strongly foliated, fine grained schists probably representing metamorphosed siltstone although a few outcrops are distinguished as conglomerate due to recognizable pebbles. Clastic metasedimentary rocks of the Elizabeth Mine area can belong to either of two units recognized by regional mapping (unit 7 -Neoarchean and unit 1-Mesoarchean). Based on their continuity with dated sedimentary sequences to the east (Stone 2008), the metasedimentary units at east side of the Elizabeth Mine area are interpreted to be Mesoarchean in age (unit 1).

Metamorphism and Structure

Supracrustal rocks of the Elizabeth Mine area have mineral assemblages characteristic of amphibolite facies metamorphism possibly transitional to upper greenschist facies in eastern parts of the area. For example, mafic metavolcanic rocks are routinely dominated by plagioclase and hornblende whereas chlorite and epidote are common in similar rocks to the east. Pillow lavas of unit 5 are exceptional in that small units occur fairly widely and show plagioclase+epidote/zoisite assemblages. These observations may indicate that the pillow lavas of unit 5 were faulted into position on top of amphibolebearing rocks after the peak of metamorphism had subsided.

Greenschist-facies minerals that could be recognized in the field (mainly chlorite+carbonate assemblages) occur at contacts or along mesoscopic faults and veins in rocks that are otherwise dominated by amphibole. Particular care was exercised to identify such local development of greenschist facies minerals because they might represent alteration zones potentially with associated gold mineralization. Although a few mesoscopic alteration zones (up to a few meters width) were identified, no large-scale zones were mapped by the survey.

Supracrustal rocks and most intrusive rocks show evidence of deformation manifest in a mineral fabric and development of mesoscopic folds and faults. These features allude to one or more early and largely ductile deformation events. Despite the widespread evidence for early ductile deformation, no largescale and coherent folds or ductile faults could be clearly identified.

One or more late and predominantly brittle stages of deformation are evident through the area. These are marked by local development on an intense cleavage and crenulation cleavage, narrow brittle faults with cm-scale offset and quartz veins. Such, late brittle deformation is observed widely in many outcrops and tends to be concentrated at geologic contacts. The Elizabeth Mine area (Figure 3) is an example of a contact between gabbro and granite that has been sheared with local development of folds, narrow brittle faults and quartz veins. Evidently, the brittle discontinuitles were conduits for fluid movement with attendant development of quartz veins and gold mineralization.

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PAGE 11/30

No regional-scale brittle faults were identified. An exception may be a possible thrust fault at the basal contact of unit 5 pillow lavas however, these contacts are not well exposed and associated faults could not be confirmed.

Suite/Map Unit No.	Rack type	Colour	Grain Size	Fahric	Ротп пікі Осоцітенсе/аррас х. % об атек	Inclusion type	Mineral Assemblago	Age."
Biotite Granite/15	Biotite granita to granodiorite	White to pale pink	Medium to	Massive to weakly foliated	Stocks and dikes/12	Most other rook types	PI+Kfeld+Qtz+P(4.Tim±P,p ±Ap±Aln±flmt+Zm	Late Neuarchean
Bintin lonalin/12 omly and 12 late	biorite tonelite to granodiorite	White to	fine to coarse	Foliated to weakly gneissic; workly quarts, and foldapar megacrystic	Irroguler to crescentic and lobate bodies: sontered/28	amphibolito, supracrustal xenoliths	₽Ĭ∸Qtz÷Bt+Kfold+Mng±Tt n±Ep±Ap±Aln+IIm≠Zcn	Mesoarchean and Neoarchean
Gabbra diorita. Improphyre/I od. 101	Amphibolite, lougo amphibolite; lemproprive-	12mk grey zó black	Fine to contact	Massive; locally foliated and megaprystic	Dises and marker/3		нын₽₩₿₩СһиСь≠Охя	Neoarchean
Gahhrori Og	Amphibolite, leuca amphibolite	Dark	Pine to	Mamive to wrakly folined	Dikes and masses/15	Mant other types of roak	PI+Fihi±Qo±Ch±Cb	Mexicarchean Negarchean
Matic metavoleanie rooks/3 and 5	Amphibolite. leuco amphibolite	Dark green to modium	Fine to medium	Foliated to greinale; Incally pillowed with flow bactures	Belt-like units/12		FI+Hbl (unit 3) FI+Rp±Chl (unit 5)	Mesonrehean Neparchean
Intermediate ractavolennie rocks/2	Flows, tuffs and breosins	Oray to white and pale green	Fire to medium, locally megacrystic	Foliated; lessily leminated or fragmental	Large marses. belts /28		PMBt+QtztHbltChltCb	2999 Ma
Classic Increasimenta Ty rocks /1 and 7	Siltatone. amdatone, conglomerate	Chrey to brown	Pino to medium for siltstone and sundatone	Foliated; hedded; locally folded	Bolt-like min/2		PI+Qu+Hbl+Bl+Rbl+Chl+Ch	Mocarchean and Novarchean

acturds of tiggs determination is Stone (2010). Mineral abbreviations are: In-diction, shl-shlerite, ep-spidore, libi-homblends, Kfeld-k feldspar, Cb-carbonats, pl-plagicalnae, quadrus

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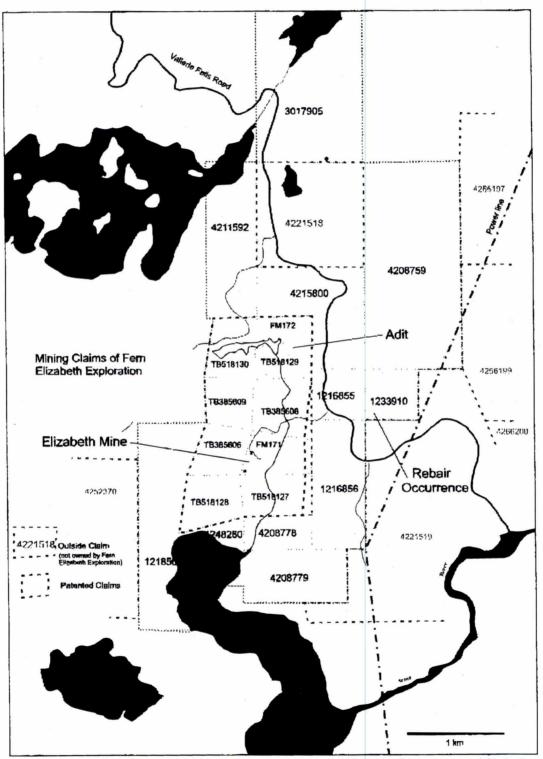


Figure 2: Mining claims of Fem Elizabeth Exploration in relation to historic gold occurrences (Elizabeth, Adit and Rebair).

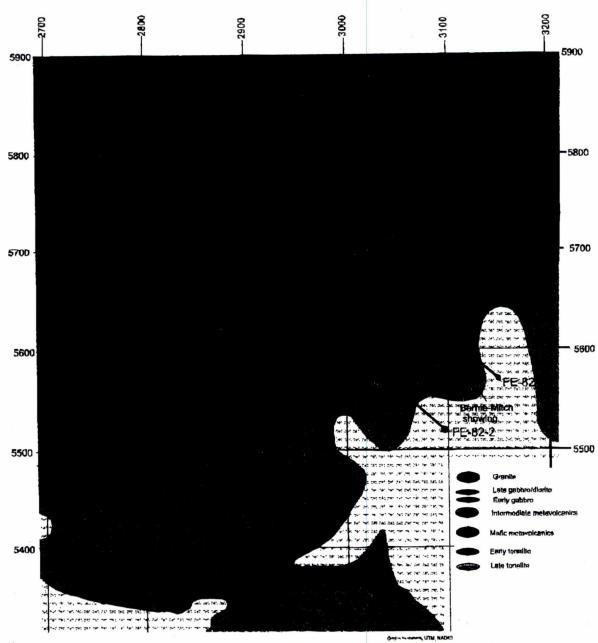


Figure 3: Detail geological map of the Elizabeth Mine area showing major shafts and veins. Drill holes by Vencan Gold Corporation (VC-series), Camflo Mines Ltd (FE-series) and some boreholes by Societe Miniere Mimiska Inc (green) are shown.

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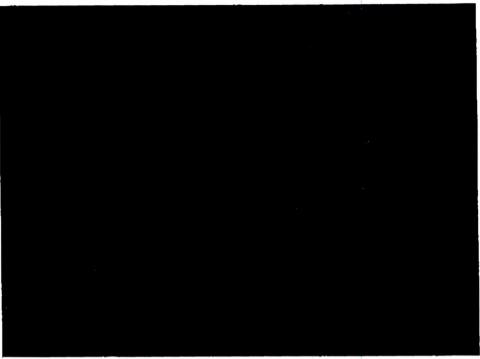


Figure 4: Visible gold from the Bernie Mitch showing.



Figure 5: No 1 shaft at the Elizabeth Mine was sunk in a quartz vein in sheared gabbro. See location of the shaft and vein in Figure 3.

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During the course of geologic mapping, samples were collected for analysis of their gold-content. In the majority of cases, the sampled material was quartz veins and a record was made of the mineral assemblage adjacent to the vein as well as the presence of accessory sulphide minerals. In some cases, strongly sheared, altered or pyritic rock was sampled for analysis. An effort was made to collect samples more-or-less evenly through the area without concentrating on historic gold occurrences.

Samples were submitted to Accurassay Ltd of Thunder Bay, ON for analysis by the fire-assay method with a detection limit of 5 ppb. Results are listed in Table 2 together with geologic information and the location. The locational data (UTM coordinate) was saved as a waypoint on a GPS and downloaded to an Excel file. Certificates of analyses are included as appendices of this report.



Figure 6: Example of a rusty quartz vein in tonalite from west of the adit.

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Table 2: Go	old assays, Eliza	beth Mine	area.					
Waypoint		asting	Rock Code	Alteration	Alteration	Pyrite	Sample No.	Au (ppm)
	(UTM, NAD83 m)		See explanation of	mineral Sec explanation of	Intensity 1-1-0-12- moderate	0-no;1-y=		
			codes on map legend	codes on Table I	3-Mgh	,		
72	5408030	593066	12a,10g	bt, rust	2	Rust	1154851	<.005
94	5408222	593144	12f,10g	hb-chl	1	Rusty	1154852	<.005
110	5408303	593122	12c,15p	hb,cl	2	0	1154853	<.005
						rusty spots		
158	5409007	593023	12c	bt	1	by qv rusty	1154854	<.005
1 7 0	5408442	593224	10d	hb,cl	2	zones	1154855	<.005
171	5408526	593243	1 2c	hb,cl	2	1 rusty	1154856	<.005
179	5408564	593261	12c	bt,cl	2	. 0		
180	5408635	593309	12a?		2	. 1	1154857	<.005
181	5408598	593303	10g	cl	2	1	1154858	<,005
182	5408594	593305	10g	ci	2	1	1154859	<.005
			6				1154860	<.005
206	5408483	593641	12c,10g,qv		2	1	1154861	<.005
							1154862	<.005
207	5408492	593624	10g,12c	cl	2	1	1154863	<,005
208	5408485	593613	12c,10g	cl	2	1	1154864	<,005
							1154865	<.005
209	5408566	593525	10g,15d	cl cb	2	1	1154866	<.005
218	5408522	594000	10g	hb	1	1	1154867	<.005
231	5408726	593824	12c,10g		iron stain	0	1154868	<.005
253	5409008	593689	12c	bt	1	0	1154869	<.005
280	5408486	593843	12c	bt	1	1	1154871	<,005
288	5408277	593874	10g	hb	1	. 1	1154872	0.05
302	5408456	593663	quartz				1154885	<.005
309	5408269	593641	10g,12c	cl	2	0	1154873	<.005
351	5408109	593819	10g		1	0	1154874	0.011
373	5408059	593872	3a,12c	?	1	Rusty	1154875	<,005
379	5407958	593295	12b,10g	se	1 or 2	rusty spots	1154876	<.005
380	5408018	593233	12p	bt,se	1	Mo	1154877	<.005
392	5407975	593165	10g,12c	bt	1	0	1154878	<.005
397	5407955	593379	15c	?	rusty	0	1154879	<,005
							1154880	<.005
406	5407936	593371	12c	cl-se	2	0	1154884	<.005
417	5407891	593189	10g leuco	?	1.	0	1154881	<.005
426	5408012	593221	15q	se	2	1.	1154882	<,005
428	5407963	593262	12c		1	1	1154883	<.005
494	5407743	594,092	10g	hb	1	1	1154889	<.005
495	5407741	594254	10g?	cl-amp?	1	1	1154890	<.005
\$01	5407699	593870	10g-3a	hb	1	1	1154891	<.005
526		593876	3a		1	0	1154894	<.005
543		594124	5a	act-ep?	1	D	1154897	<.005
544		594689	5s	cl		0	1154898	<.005
556			12c,10g	cl	2	1	1154900	<.005
555		593848	3a-2a	bt?	1	0	1154951	<.005
564		593861	3a	hb?ep	1	0	1154952	0.015
569		5 593382	3s	cl,cb	2	1	1154954	<.005
57		8 592913	12c	bt	1	0	1.1549 55	0.006

10/23/2015 15:04 9414758980

PAGE 17/30

585	5407309	593216	3а	cl		2	1	1154957	<.005
592	5407017	593464	3s	cl ,c b		2	1	1154959	0.015
628	5406866	593193	12c	bŧ	2 rusty		0	1154969	<.005
	5406930	593580	3a				0	1154961	<.005
	5406895	593440	12q				0	1154962	<.005
				rusty					
643	5406873	593242	12c	zone		2	1	1154693	<.005
644	5406548	593386	10g,12b			1	1	1154964	<.005
646	5406578	593196	12r ,15 p			2	1	1154965	<,005
647	5406621	59 319 7	12r				1	1154960	0.016
650	5406898	593181	12r		rusty		1	1154967	<.005
651	5406849	593207	12r	?	2 rusty		1	1154969	<.005
				cl,cb		_	_	4454070	0.000
652	5406666	593388	2a?	rusty		3	1	1154970	0.006
655	5406678	592975	12c,10g	cl?		1	1	1154971	<.005
656	5406758	592944	12c	cl		2	0	1154972	<.005
657	5406826	593042	12,10g	cl		1.	1	1154973	<.005
658	5406750	593073	10g	cl?		2	0	1154974	<.005
CEO	E400700	F07116	73.	cb with		2	4	1154975	<.005
659	5406700	593116	12c	qtz		2 2	1		<.005
660	5406653	593029	12c,10g	cb,cl		2	1	1154976	<,005
662	5406500	592972	12c	rusty zone		1	0	1154977	<.005
663	5406506	592768	12c	Lone		1	0	1154978	<.005
669	5406328	593174	12c,10g	cb,cl		2	0	1154979	<.005
672	5406370	593162	12c,10g	cl,cb		2	0	1154980	<.005
676	5406452	593233	15c	pk		2	1	1154981	<.005
681	5406663	594144	10g	cb,cl		2	1	1154982	0.033
686	5406402	594404	10g	cb,cl		2	1	1154983	0.01
708	5406328	593892	2a	cb,cl		2	1	1154984	0.021
712	5406520	593352	10g	hb		1	0	1154985	0.011
,112	5400540	030002				-	_	1154986	2.976
713	5406481	593308	10d,2a,12q			1	1	1154987	0.011
715	5406512	593269	10g,15c	cl		2	1	1154988	<.005
719	5406482	593077	12r	bt		2	1	1154989	1.804
723	5406424	\$92690	15c	bt			0	1154990	0.005
724	5406423	592625	1 5a	rusty		2	0	1154991	0.056
725	5406405	592563	12r	rusty		2	1	1154992	<.005
726	5406341	592499	7	rusty cl		2	1	1154993	0.006
740	5406290	593084	12r	cl,cb		2	1	1154994	0.008
741	5406331	592962	12f-15t	cl,cb		3	1	1154995	0.006
744	5406283	592698	12r-15c			1	1	1154996	0.009
754	5406196	593021	15a rusty			2	1	1154997	<.005
766	5406008	593950	2a	cb,cl		2	1	1154998	0.006
								1.154999	0.023
767	5405992	593915	Za	cl		1	1	443260	0.116
775	5406572	593628	12q	cb,cl		2	1	443261	0.012
782	5406171	593204	15c	7	2 rusty			443262	<.005
786	5406161	592 901	12r	rusty		2	1gn	443263	9.84
789	5405987	592528		сЬ		2	O	443264	0.012
7 90	5406014	592684		rusty		2	Rusty	443265	0.009
7 92	5406019	593099		pk		2		443266	2.885
809	5405875	593241	10g	cl?		2	?	443267	0.029
811	5405911	593117				2	D	443268	0.078
824	5405650	592 57 0	15b	cb,cl		2	1	443269	0.01

10/23/2015 15:04

Oct 23 2015 03:08pm

PO19 OFFICE DEPOT

PAGE 18/30

826	5405788	592773		k		1	O	443270	<.005
828	5405808	592941	15b quartz stoc			2	0	443271	7.214
831	5405783	593097	15b	qtz stock		1	1	443272	0.069
832	5405587	593121	10g,12a,101?	cl		2	1	443273	0.007
834	5405884	592096	12g,10g	cl		2	1	443274	0.008
839	5405722	592458	12fc			1	0	443275	<.005
840	5405612 5405469	592504	15b 12b	se ·	2 Fe	1	1 0	443276 443277	0.276 0.006
843 888	5405257	592008 592265	15b	5 0		1 2	1	443288	<.005
890	5404985	592138	15b	sehe		2	galena?	443289	0.086
895	5405080	592211	15bc	se,cb		2		443290	0.006
899	5405196	592285	15b	se,cb		2	1	443291	0.007
901	5405308	592332	15b	26		2	0	443292	0.593
914	5404986	592227	15b			2	1	443293	0.006
3	5404491	591955	10g			1	0	443294	0.006
7	5404615	592114	28	cl		1	o	443295	<.005
10	5405210	592135	15b	pk		1	0	443296	<.005
15	5404707	592371	2a,10g			1	0	443297	<.005
18	5405035	592358	15a,10g	cl		1	0	443298	<.005
29	5405188	592413	15a	cl?		2.	0	443299	0.006
32	5405551	592856	10d	hb		1	0	443300	<.005
34	5405561	593645	2s	cbcl		2	0	95754	<0.005
40	5405374	593062	10g-3a	cl		2	0	95755	<0.005
41	5405388	593018	3a,10g			2	a	95756	< 0.005
45	5404938	593369	10g	rlcb		2	0	95757	<0,005
54	5405017	593824	2a	cľ		1	0	95758	<0.005
56	5405533	592842	3a-10g	hb?		1	1	95759	3.573
61	5405646	592914	15a,10g	cbcl		2	1	95760	0.007
68	5405666	592940	10g,12a			2	1	95761	0,041
69	5405628	592971	10g,12a			2	1	95762	38.785
74	5405529	592894	10g	cl		2	1	95763	1.959
77	5405076	592956	10g			1	0	95764	0,022
79	5404864	593060	2a				0	95765	0.048
90	5404670	593149	2a,10g	clcb		2	o	95766	0.01
91	5406459	592878	12r			1	0	95767	<0.005
92	5406455	592919	12r			1	1	95768	0.18
93	5406483	592938	12r			1	1	95769	<0.005
				rusty			_	05370	0.012
94	5406485	593078	12r	zone		2	1	95770	0.013
95	5406456	593073	12r	rusty		2	0	95771	<0.005
96	5406411	593063	12r	fracs		1	1	95772	0.006
				rusty					
97	5406387	592708	15c	fracs and qv		1	0	95773	<0.005
98	5405760	592927	15c	•		1	0	95774	0.006

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Approximately half of the analyses of Table 2 have a gold content below the detection limit of .005 ppm and are listed as <.005. A large proportion of samples have a gold content in the range of .005 to .05 ppm Au and only a small number of samples have more than 1.0 ppm Au. The highest gold values come from samples taken at known gold occurrences such as the Elizabeth, Rebair and Adit localities.

Generalities can be made by examining the data of Table 2. For example, most gold-bearing quartz veins are hosted in intrusive rocks such as gabbro (10g), tonalite (12) and granite (15) whereas metavolcanic rocks (units 2 and 3) are less well represented. Likewise, accessory sulphide such as pyrite is commonly associated with mineralized quartz veins. Typically, rocks adjacent to the quartz veins show an assemblage of greenschist facies silicate minerals such as chlorite and a carbonate which is probably ankerite.

The proportional-dot diagram (Figure 7) illustrates the distribution of gold assays of Table 2. Anomalously high gold values (>.05 ppm Au) are shown by large dots in Figure 7. Anomalously high gold is present not-only at the historic occurrences such as the Elizabeth but large dots are also concentrated within a zone extending SSW from immediately west of the adit to northern Modred Lake (see ellipse in Figure 7). The zone of anomalous gold lies within mainly tonalitic to granitic intrusive rocks adjacent to the greenstone belt. Although the zone from west of the adit to Modred Lake shows some trenches, it lies largely outside the areas of intense historic exploration such as at the Elizabeth.

Recommendations

Results of the present work provide insight on the location and type of future exploration work with the goal of finding gold new mineralization and adding to previously-know occurrences in the Elizabeth Mine area. Future work should be concentrated in areas of plutonic rock west and southwest of the Elizabeth Mine (within and adjacent to the elliptical area of Figure 7). The work should include detailed mapping and sampling focused on identifying zones of alteration and deformation. Such zones have assemblages of greenschist-facies minerals (chlorite +carbonate) and accessory sulphide minerals (mainly pyrite, chalcopyrite and galena) and can show a strong foliation or schistosity. The alteration/deformation zones and associated quartz veins should be sampled for gold content. A portable rock-saw will be useful for obtaining samples from many outcrops. Finally, assay results should be plotted on a detailed map to identify areas worthy of further work; ensuing work might include trenching and drilling.

Available records suggest about 100 boreholes and numerous assays have been made in the immediate area of the Elizabeth Mine and yet no complete record of this work is available. A careful office-study should be made of existing records to assemble a map of boreholes and assays in the area of the Elizabeth Mine. Possibly, the ore-reserve calculation of Larouche and Clark (1988) can be updated.

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Figure 7: Proportional dot diagram of gold assays, Elizabeth Mine area. The ellipse represents a zone of anomalous gold assays outside of historic gold occurrences.

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References

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Appendix

Lab certificates for assays and signature of the author

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Tuesday, September 8. 2015

Final Certificate

Fem Elizabeth Exploration Box 13 Allkokan, ON. CAN POTICO PM: (807) 597-6293 Email: nymiaka@ivo.com

Date Received: 09/31/2015 Date Completed; 09/08/2015 Job #: 201544047 Raference: Sample #: 21

Acc #	Clarito	AU	AL GIM
		gA (ppm)	bpm
361 168	096791	6.D4*	
341169	025792	O00,074	38.785
707170	095752	1,959	
¥1171	096784	0,022	
361172	095785	o,MA	
301173	095786	0.010	
767 (74	005757	-0.005	
381175	015768	0,180	
361179	095760	<0.005	
261177	095770	C10,P	
301178	095770 Dub	0,014	
351179	095771	<0,005	
361:60	095772	n,can6	
361 IR1	095773	<0.005	
381182	095774	90p.0	
BISCAL	005754	≈0.€05	
303217	045756	<0,005	
363218	M95756	<0.005	
363219	10万字で生ます	<0.005	
363270	09575h	<0.005	
363221	098758	3.673	
363222	1 096760	0.007	

APPLIED SCOPES: ALP1. ALFA1. ALFA7

Validated By:

Certified By:

Authorized By:

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Tuesday, Saptember 8, 2015

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Fem Elizabeth Exploration Box 13 Allrokan, ON, CAN POT1CO Ph#: (807) 597-6293 Email: nymiake@live.com

Date Received: 08/21/2015 Date Completed, 09/08/2015 Job #: 201543688 Reference: Sample #: 39

App ◆	Ci-ent ID	Bul (minus)	Au Gro-
220561	443282	~0,0C5	
329562	443263	-10,000	9.840
329563	443264	0.017	
598564	443265	0,009	
329583	443266	2.885	
124506	4020	0.029	
328MT	443288	D,97n	
329800	44326D	070.0	
321669	443270	<0,005	
378570	443271	7214	
32P671	443271 Dup	6, 47A	
320577	443272	η, ο πο	
328573	443273	7,00.0	
32967A	443274	0.007	
129576	443275	0.007	
329576	445276	0,009	
329677	443277	<0.005	
129578	443278	₹0.005	
329579	443279	~ 0, 0 05	
329600	4432/00	0.006	
379581	84375"	0.006	
329562	MARD: DVD	≠0.0 05	
220523	443282	0,045	
329664	443283	0,007	
120585	443384	6.008	

APPLIED SCOPES: ALP1, ALFA1, ALFA7

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Authorized By:

Andrew Oleski Lati Manager - Thurder Bay

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Tuesday, September 8, 2015

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Fem Elizabeth Explanation Box 13 Atlkokon, ON, CAN POT1CD Ph#: (807) 597-6293 Email: nymlaku@live.com

Date Received; 08/21/2015 Date Completed: 09/08/2015 Job #: 201543888 Reference: Sample 4: 38

Anc d	Clert ID	g/t (mpm)
37.4588	443285	<0.005
329307	445286	0.278
329588	443787	800.0
120509	443268	<0.005
329590	448289	0.086
329591	+43290	0.000
120592	443287	9.007
129590	44079 : Due	0.006
758201	443282	0.593
329595	443293	0.006
120506	443784	0.000
320507	443285	<0.005
329598	443240	≈ 0.005
T29500	443287	<0,005
329500	AASSWA	<0.005
329901	A412BB	9.008
329502	443300	<0.005

APPLIED SCOPES: ALP1, ALFA1, ALFA7

Certified By:

Andrew Olesk Lab Manager - Thorstor Sav Authorized By:

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Wednesday, August 12, 2015

Fern Elizabeth Exploration Box 13 Allkakan, ON, CAN POT1CO Ph#: (807) 597-8293 Email: nymtake@live.com Final Certificate

Date Received: 07/15/2015 Date Completed; 08/04/2015 Jab #: 201543002 Reference: Sample #: 44

Acc 4	Cffen: ID	By (bow)
267098	1154969	0.015
287310	1154960	0.016
267311	1154961	-0.005
267312	1154982	<0.005
287313	1154989	<0.00€
267314	1154984	<0,0D5
267315	1154965	<0.005
267316	115496G	<0.005
267317	1104967	<0.00₹
267318	1154908	<0.005
207319	1154958 Qup	<0,005
267320	1154263	<0.006
207321	1154070	0.000
267322	115-871	<0.005
207323	1154972	~ 0.005
26732	1164873	₹0.005
20732	1154974	<0.005
26732	5 1134975	≈0. 405
कान	7 1154976	<0.005
26732	1154077	<0.005
28732	9 1164978	<0.005
26733	D 1154978 DUD	<0.005
26733	1 1154978	40.005
2673	2 1154980	<2,000
2017	3 1154981	<0 003

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Fem Elizabeth Exploration Box 13 Atkoken, ON. CAN P0T1C0 PM: (807) 597-8293 Email: nymlake@live.com Final Certificate

Date Received: 07/15/2015 Date Completed: 08/04/2015 Job #: 201543002 Reference:

Sample #: 44

ACC #	Cliant 1D	gri (rean)	
287374	1164982	0.033	
267335	1154963	0.010	
267339	1164984	0.021	
207337	1184985	p,ntt	
267338	T_1.5.49780	2.976	
207339	1:54987	Q 0 11	
287340	1154988	<0.005	
267341	1154988 Dup	<0.605	
207342	1154989	1.804	
267343	1154090	0.003	
267344	1154291	D.Q56	
267345	1184890	<0.005	
267346	1154993	0,008	
207347	1154994	0.000	
207345	1154995	0.008	
267349	1754994	0.000	
267350	1154997	×0.005	
267251	1154998	0.000	
267353	1164RPE DUP	0.022	
26735	1154999	9.023	
28735	1155000	D.070	
20739	5 A43280	0.116	
28735	8 443281	9.012	

APPLIED SCOPES; ALP1, ALFA1

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Thursday, July 23, 2015

Fam Elizebeth Exploration Box 13 Atlikokan, ON, CAN P0T1C0 Phd: (807) 597-5293 Email: nymiske@tive.com Final Certificate

Date Recoived: 06/23/2015

Date Completed: 07/14/2015

Job #: 201542506

Reference;

Sample #: 22

Acc #	Client ID	an (pam)
218743	1154887	0.048
215744	1184888	D.180
218745	11548AQ	<0.005
218748	1154890	<0.005
218747	1754891	₹0.007
210746	1154892	<0.005
218749	1154893	0.290
218750	1154894	-0.005
218751	1154895	<0.005
216752	1154606	<0.005
218763	1154886 Dup	<0.005
218754	1164897	<0.005
218755	1154599	<0.005
218758	1154809	<0.005
218757	1154900	<0.005
218750	1154951	≈5.N05
218759	1154952	0.015
218790	1154953	<0.003
210741	T154954	<0.0₫5
218762	1154966	0.006
218763	1154950	<0.005
3187B4	1154958 Dup	<0.005
218713	1154957	-0 005
218796	1154900	40.003

APPLIED SCOPES: ALP1, ALFA1

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Assistant Managar - Thundar Bay

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Andrew Cleski Leb Manager - Thurder Bay Authorized By:

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Thurster Bay, ON Canada PTB 5x5

Fax: (807) 622-7571 assay@accurassay.com

10/46 Gerham Street Tel: (807) 626-1630 www.accurageay.com

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Fem Elizabeth Exploration Box 13 Atikoken, ON, CAN POT1CO Ph#: (807) 597-6293 Email: nymlake@five.com Final Certificate

Date Received: 08/15/2015 Date Completed; 06/20/2015 Job #: 201542255 Reference:

Semple #: 35

ACC F	Client ID	Au p/t (ppm)
125749	1184651	6.001
19575D	1194857	0.002
198761	1154853	0.001
105752	1134864	0.002
195783	1164805	r) 001
195754	1154556	0.002
195735	1154857	000,0
195750	1134858	0.000
196737	1154859	0 1822
195756	1154800	100,0-
125759	115465C Dup	0.001
195760	1154861	0 002
798767	1154902	9,002
105762	1154083	0.000
10:2783	1154884	-0,001
105784	1154065	0.004
195765	:164868	-0.001
195766	1154867	·D.002
185767	1154050	-0.001
195786	1154889	-0.001
19578	1154871	-0.003
195770	1154871 QUD	-0.000
195771	1154672	0.050
195772	1154573	0.001
19577	1154874	0.071

APPLIED SCOPES: ALP1, ALFA1

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1046 Gorlann Street Tel: (807) 526-1630 www.accurassay.com

1046 Gronam Street Founder Cay, CN Tapana PTC 5x5

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Thursday, July 9, 2015

Final Certificate

Fem Elizabeth Exploration

Box 13 Allkokan, ON, CAN POT1CO Phr; (807) 597-6293 Email; nymiake@live.com

Date Received: 06/15/2015 Date Completed: 05/30/2015 Job #: 201542255

Sample #: 35

Acc #	Glient III	g/l (ppm)
195774	1154875	-0.900
186775	1154676	-0 000
195778	1164877	0.001
195777	1154878	-0.000
186178	1154879	D.001
195779	1154860	n,004
195780	1144881	•0.00⊅
;057B*	1154881 DUP	-0.001
196782	1154862	0.002
105783	1154889	-0.002
195784	1104904	·0.902
196765	1154565	-0.002
196786	1154580	- 0.0 01

APPLIED SCOPES: ALP1, ALFA1

Validated By:

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Certified By:

Andrew Oleski Lab Manager - Thurster Bay Authorized By:

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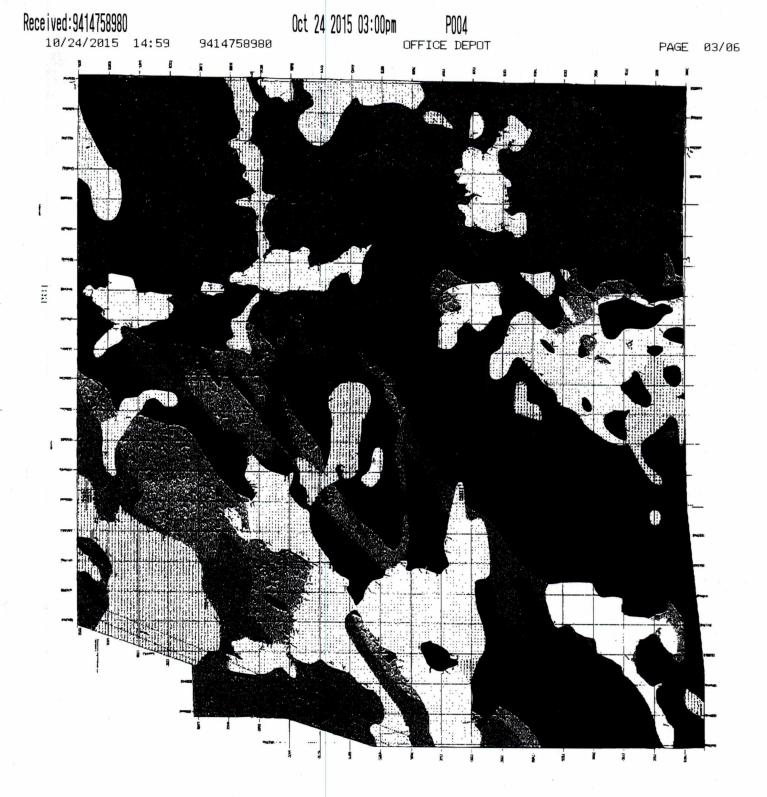
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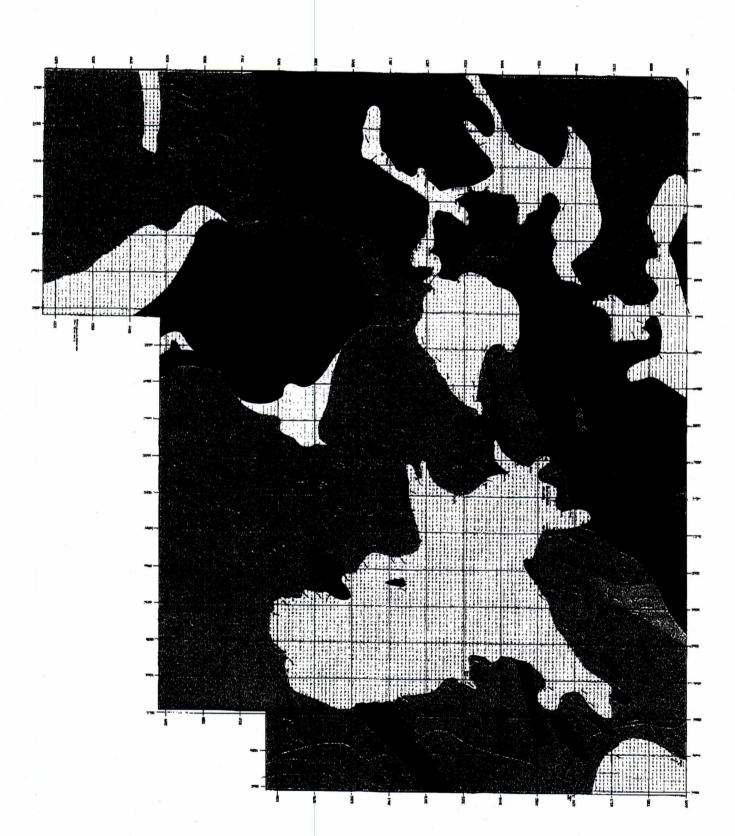
PAGE 30/30

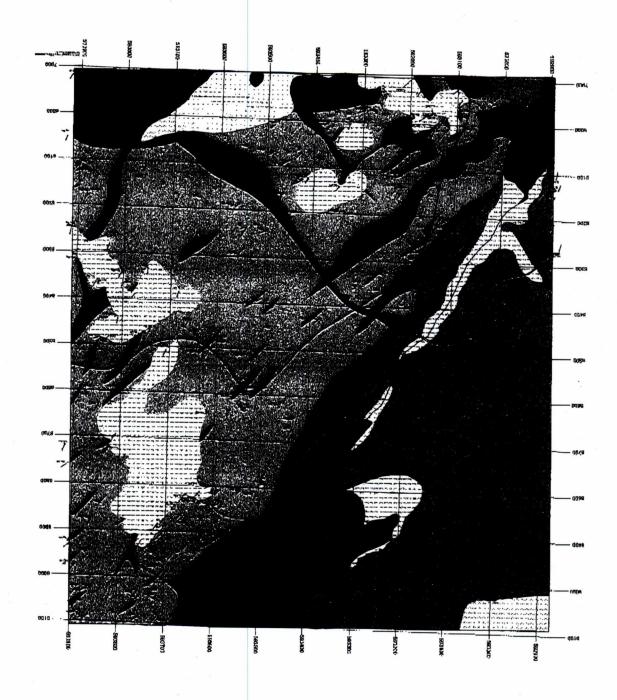
The survey work was performed by and the report was written by the undersigned:

Denver Stone

PhD, PEng







Mining claims of Fern Elizabeth Exploration Limited

LEGEND'

ARCHEAN NEGARCHEAN (2.5 to 2.9 Ga)

INTRUSIVE CONTACT NEOARCHEAN TO MESOARCHEAN (2.5 to 3.4 Gz)

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MESOARCHEAN (2.9 to 3.4 Ga)



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Oct 24 2015 03:02pm



October 24, 2015

Geoscience Assessment Office Willet Green Miller Centre 933 Ramsey Lake Road, 3rd Floor Sudbury Ontario P3E 6B5

Geoscience Assessors:

Re: Application to Distribute Banked Assessment Credits from Kaby Lake Project to Sleeping Giant Project and Hercules Project, Thunder Bay Mining Division

Please find attached, one assessment form to distribute banked credits from claim TB4213688 to claim TB4213680, TB4213681 and TB4204274. These claims are registered in the name of Prodigy Gold Inc.

I trust you will find everything in order.

Yours sincerely,

Randy Sedore

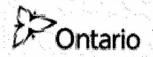
PRODIGY GOLD INC.

R. Solar

Land Manager 194 Leeland Way Killarney Road, NB E3A 5M7

Oct 25 2015 03:47pm 2015-10-25 19:46:08 (GMT)

19052485003 From: Randy Sedore



Northern Development and Mines

THELP?

Clear Form

Print Form

Application to Distribute Banked Assessment Work Credits

Mining Act, Assessment Work Regulation Section 4

Office Use Only

Personal information collected on this form is obtained under the authority of subsection 66(1) of the Mining Act. Under section 8 of the Mining Act, the Information is used to maintain a public record. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3¹⁶ Floor, 933 Ramsey Lake Road, Suddury ON P3E 685. Telephone 1 888 415-9845.

All correspondence will be sent to the address on file in the Provincial Recording Office, per Mining Act subsections 19(6) and (8).

Recorded holder(s). Please type or print in Iris. Attach a list if necessary.

Name	CRent Number	Telephone Number	Fax Number
PRODIGY GOLD INC.	401568	(705) 717-8506	(905) 248-5003
-,			

Distribution of Work Credits From Bank. Attach a sketch which shows the contiguous link of mining claims to where the work was performed.

Number. This is the transaction number of the original assessment work form where original banked amounts are listed.	claim Land For	of the Mining Claim berlot, for unpatented mining st. For other eligible Mining st, indicate the proper identifier: Mining lease: lease number Patents: parcel number	Units. For other types of mining land, list hectares.	 Total value of work to be drawn from the bank of the mining claim or other mining land listed in column 2. 	 Value of work to be applied to the mining daim.
W 1240.00608	1	TB4213688	16	\$76,457	\$0
	2	TB4213680	16	\$0	\$28,504
	3	TB4213681	16	\$0	\$32,000
	4	TB4204274	8	\$0	\$15,953
	5				
•••••	₫				
	7				
	8	8		-	. 5
	9				
		Column Totals	56	\$76,457	\$76,457

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f _v	Randy Sedore	, do hereby certify that the above work credits are eligible for assignment to
	()Print Name)	

configuous plaims under subsection 7 (1) of the Assessment Work Regulation 6/96.

Signature of Recorder Hain Agent's Telephone Number (If agent signed above)

Date (yyyymmidd) 2015/10/24

Agent's Fax Number (905) 248-5003

For questions on completing this form, contact the Geoscience Assessment Office at 1 888 415-9845.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"

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(705) 717-8506

Print Form