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Report

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On the March 8- April 13, 2017

Diamond Drill Program

Jacobson-Riggs Township Project, Ontario

For

First Minerals Exploration Ltd.



Submitted by Bruce Edgar (HBSc, P. Geo.)

May 20, 2017

Summary

This report on the exploration diamond drilling program on the Jacobson-Riggs Project has been completed at the request of Mr. Robert Young, President, First Minerals Exploration Ltd. The report summarizes the results of the exploration diamond drill program carried out on the company's Jacobson-Riggs Township property between March 8 and April 13, 2017.

The exploration program was carried out in part to fulfill the requirements of an option agreement with Prodigy Gold for their Jacobson and Riggs township claims. The exploration diamond drilling was performed to test the geological, structural and mineralizing environment within the Goudreau Lake Deformation Zone in this area, and more specifically to test the Northern Shear zone in an area where there is no record of historical exploration.

The March 8 through April 13, 2017 diamond drill program on the Northern Shear of the FMEL Jacobson and Riggs Project property has been highly successful in demonstrating the possibility of the existence of undiscovered gold zones on the property. The intersections in FM-17-2 represent the first "new" discovery of gold on the property since the 1980's.

The majority of known gold zones in the eastern GLDZ were discovered on limited surface outcrops in the early 20th century. Diamond drilling in the late 1980's led to the discovery of the Goudreau, Lochalsh and Island zones on the Richmont property, the Porphyry and Carbonate zones on the Edwards property and the 88-60 zone on the Cline property. In all instances, the zones did not significantly outcrop on surface.

The property held by FMEL spans almost two Townships, has minimal outcrop, and is vastly underexplored. It stands to reason that many more auriferous zones await discovery with more exploration and diamond drilling on the FMEL property.

The author is recommending a phase 1 exploration program consisting of MMI sampling for gold on 4 GPS grids covering parts of the Northern and Southern shear zones in the eastern portion of the FMEL property. Positive results would be followed by drill testing of the targets. The total expenditure for this work is estimated to be approximately \$300,000.

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Introduction

This report on the exploration diamond drilling program on the Jacobson-Riggs Project has been completed at the request of Mr. Robert Young, President, First Minerals Exploration Ltd. The report summarizes the results of the exploration diamond drill program carried out on the company's Jacobson-Riggs Township property between March 8 and April 13, 2017.

The exploration program was carried out in part to fulfill the requirements of an option agreement with Prodigy Gold for their Jacobson and Riggs township claims. The exploration diamond drilling was performed to test the geological, structural and mineralizing environment within the Goudreau Lake Deformation Zone in this area, and more specifically to test the Northern Shear zone in an area where there is no record of historical exploration.

The author, Bruce Edgar, has been responsible for the concept, planning and supervision of the program, as well as the logging and splitting of core, quality control measures, and the writing of this report.

The author has worked in the region off and on for 30 years, and is very familiar with the geology and deposits of the Jacobson-Riggs project area.

Property Description, Location and Accessibility

The Jacobson-Riggs Project is located in Jacobson and Riggs Townships, Ontario, Canada, and encompasses 31 staked claims (168 units) held 100% by First Minerals Exploration Ltd. (FMEL) and 13 staked claims (43 units) and 53 patented claims optioned from Prodigy Gold (Argonaut Gold Inc.).

The contiguous property spans from the western boundary of Jacobson Township (approximately 692400E, UTM NAD83, Zone 16) to Dog Lake in the eastern portion of Riggs Township (approximately 709670E, UTM NAD83, zone 16). It resides within and along the geologically favourable Goudreau Lake Deformation Zone (GLDZ) as outlined by the Ontario Geological Survey.

The area is easily accessed by taking Trans-Canada Highway 17 for 42 kilometres north of Wawa, and highway 519 east to Dubreuilville. On the outskirts of town the Goudreau road (locally Cemetery road) heads southeast for 15 kilometres to the Goudreau- Lochalsh road. This road is taken east past the Richmont Island Gold Mine for approximately 9 kilometres. At this point the first bush road used to access the exploration diamond drill sites heads south off the Lochalsh road.

History

The Goudreau - Lochalsh area has a long history of gold exploration. Within the eastern portion of the Goudreau Lake Deformation Zone, just west of the FMEL property package, gold was first discovered on

the current Cline Mine property by James Cline in 1917. During the late 1930's and early 1940's approximately 330,000 tons of ore was mined producing over 60,000 ounces of gold.

Peter Edwards discovered gold on the current Edwards Mine Property in 1924. In the 1930's a shaft was sunk and four levels developed. From 1996 to 2001, River Gold Mines mines over 450,000 tons of ore recovering over 144,000 ounces of gold.

Within the FMEL Jacobson- Riggs property package (including the current option with Prodigy Gold), gold was first discovered by Michael Webb in 1920 at the Three Mile Post occurrence (currently the "A" zone).

The recently completed diamond drill program (the subject of this report) is located within claim 1174694. Within this claim, gold was originally discovered by W. E. Markes in 1934 at the "Markes" zone in the south-west corner of the claim. Numerous exploration programs by a number of companies have been completed in the area of the Markes Zone including mapping, surface sampling, test pitting, ground geophysical surveys, soil sampling and diamond drilling. Work on the Markes zone concluded with a 10,406 tonne bulk sample removed in 1999 by Pele Mountain Resources which averaged 5.1 gpt Au.





In the west- central corner of the claim gold was discovered at the "Markes North" zone. A number of companies completed mapping, surface sampling, trenching, ground geophysical surveys, soil sampling and diamond drilling, concluding with a drill program performed by Pele Mountain resources in 2000.

The recently completed diamond drill program by FMEL represents the first work performed in this area in 17 years, and is the subject of this report.

GEOLOGICAL SETTING

Regional Geology

The FMEL properties are situated within the Michipicoten (Wawa) greenstone belt, which is subdivided into three episodes of mafic- felsic volcanism and sedimentation referred to as the Hawk, Wawa and Catfish assemblages. Based on U-Pb zircon dating and whole rock geochemistry, these assemblages have dates of 2900 Ma, 2749 Ma and 2700 Ma respectively. The gold occurrences within the FMEL property occur on the contact between the Wawa and Catfish assemblages, which feature intermediate to mafic volcanic rocks of tholeiitic to high-iron tholeiitic composition. The intermediate to felsic volcanic rocks of these cycles are calc- alkalic rhyolites and dacites. Each episode of volcanism is capped by chemical meta-sedimentary rocks consisting of siderite-, pyrite-, or chert-magnetite iron formations and/ or clastic meta-sedimentary rocks consisting of argillites, siltstones, sandstones and conglomerates. All volcanic cycles are intruded by dikes and sills of gabbroic to quartz diorite composition. Granitoid rocks of several ages and varied composition have intruded the supracrustal rocks.

A more detailed description of the regional geology may be found in reports by Sage and Heather (1991) and Williams et al (1991).

Goudreau- Lochalsh Area Geology

The FMEL property lies within the Goudreau- Lochalsh area which features supracrustal rocks near the contact of the Wawa (Cycle 2) and Catfish (Cycle 3) assemblages. The top of the Wawa assemblage (located in the southern Goudreau- Lochalsh area) features felsic to intermediate, pyroclastic metavolcanics capped by iron formation intercalated with clastic sediments and chemical precipitates. The iron formation includes magnetite and chert facies rock and carbonate sulphide and graphite facies deposits. The pyrite- rich iron formations were mined through World War I and were referred to as the "Goudreau Iron Range".

To the north are the massive, pillowed and schistose magnesium- and iron- rich tholeiitic flows of the Catfish assemblage. The upper portion of the assemblage features intermediate to felsic metavolcanics intercalated with metasediments, indicating contemporaneous volcanism and sedimentation. Both the metavolcanic and metasedimentary rocks throughout the assemblage have been intruded by numerous mafic to felsic intrusives. Sills, dikes and oblong- shaped units of gabbro and diorite intrude the volcanics

and sediments. Multiple intermediate to felsic intrusions of various textures form sills, dikes and stocks all along the Goudreau Lake Deformation Zone and include granites, granodiorites, syenites, quartz and feldspar porphyries, tonalite and trondhjemites. All of the Archean supracrustal rocks and intrusives are intruded by much younger diabase dikes associated with the Matachewan dike swarm.

All of the volcanic and sedimentary rocks in the area have undergone greenschist facies metamorphism, with rocks adjacent to the external northern granitoids exhibiting amphibolite grade metamorphism. The alteration commonly associated with the deformation is characterized by quartz, sericite, chlorite, epidote, tourmaline, ca- carbonate, fe- carbonate (ankerite), actinolitic amphibole and biotite. Shear zones exhibit a more intense alteration which commonly destroys any original texture and minerology.

The Michipicoten greenstone belt is believed to be a monoclinal sequence of supracrustal rocks thickened by regional folding, with an initial period of multiple recumbent folding and thrusting at, or close to, lithological boundaries. This was followed by upright folding, reverse faulting and more folding. The geometry of the Goudreau-Lochalsh area is that of an inverted anticline known as the Goudreau anticline. The regional strike of the rock units is approximately parallel to the axial surfaces of the prominent folds and thrusts. In Abotossaway Township, the strike is just north of east- west, and in Jacobson and Riggs townships the strike is east- west.

Structurally, the Goudreau Lake Deformation Zone is the dominant feature in the Goudreau- Lochalsh area. The GLDZ is up to 4.5 kilometers in width and strikes 30 or more kilometers in an arcuate form subparallel to the stratigraphy and regional foliation. The GLDZ is coincident with the major contact between the Cycle 2 (Wawa) and Cycle 3 (Catfish) assemblages. Structural controls are the most important factor in the localization of gold- bearing quartz veins in the area, and the GLDZ is comprised of numerous, systematically oriented shear zones. In Abotossaway Township, the western domain of the GLDZ is approximately 9 kilometers long and 2.3 kilometres wide and composed of brittle and brittleductile high- strain zones displaying dextral oblique slip displacement. The western domain is truncated to the east by the north- south trending McVeigh Creek fault. In Jacobson and Riggs Townships, the eastern domain of the GLDZ is approximately 9 kilometers long and 2 kilometres wide and contains narrow brittle and brittle- ductile high-strain zones displaying dextral, oblique slip displacement. The Eastern domain is truncated to the west by the Maskinonge Lake fault.

The Dog Lake Deformation Zone (DLDZ) is located in the central part of Riggs Township and extends eastwards into West Township. It is a 1.5 to 2.5 kilometre- wide, southeast trending zone of moderately to strongly strained rocks. The DLDZ is characterized by ductile and brittle-ductile shear zones occurring in two dominant directions of 90 to 100 degrees and 110 to 120 degrees.





Local Property Geology

The area in the vicinity of the recently completed diamond drill program is underlain predominantly by mafic lavas metamorphosed to greenschist facies. They are generally chloritized to varying degrees, are locally epidotized and may exhibit pillows and amygdules, and are massive to well-foliated. Grain size varies from very fine to coarser, almost gabbroic texture, and color is most often various shades of dark green to green-grey. Alteration includes silicification, carbonitization (ca-carbonate) and locally ankeritic (fe-carbonate) alteration.

Felsic Intrusives are the second most commonly intersected rock type and vary from Quartz Porphyries to Feldspar Porphyries and Felsite. They are younger and cut all the varieties of mafic volcanics and vary from a light to medium grey or beige/tan grey to a green-grey to a flesh/pink colour. They can be massive to foliated to varying degrees and generally exhibit an aphanitic to very fine grained matrix with coarser quartz eyes or feldspar phenocrysts in the case of the porphyritic rock. The Felsite is generally very fine to fine grained and non- porphyritic. Alteration includes sericitization, carbonitization and locally ankeritic (fe- carbonate) alteration. Contacts with the mafic volcanics are usually sharp, chilled and aphanitic. The Felsic intrusives tend to exhibit brittle fracturing.

The third most common rock types are the Mafic Intrusives which include Diabase and Lamprophyre. They are viewed as late in the geological sequence and cut all other units. The Diabase is generally fine to medium grained centrally, dark grey-black, massive, hard and strongly magnetic. Contacts with the other units are chilled and aphanitic. Units cut by the Diabase are generally intensely silicified and hard.

During the recent diamond drill program lamprophyrye was intersected in only one location. The unit is fine to coarse grained, massive, a brown-grey and strongly magnetic.

Chemical sediments in the form of Iron Formation were intersected in a number of locations and feature white to grey sugary quartz and masses, agglomerations and pseudo bands of pyrite, pyrrhotite and magnetite, occasional chalcopyrite, along with bleached/silicified host rock.

Structure, Alteration and Mineralization

Structural controls are the most important factor in the localization of gold bearing quartz veins in the Goudreau Lake Deformation Zone (GLDZ). In the vicinity of the recent diamond drill program the Northern Shear (hosting the "Markes North" zone) and the Southern Shear ("Great Shear" or "Edwards/Cline Shear", hosting the "Markes" Zone) are the most recognizable structural features.

The Northern shear has been traced by geophysics for some 5,400 metres from the Cline Property "88-60" zone eastwards across the FMEL property to the "A" zone, northeast of Godin Lake. On various surface exposures the zone is generally from 3 to 4 metres in width, up to 30 metres locally, and features strongly foliated to sheared, altered, serecitic and pyritiferous host rock, which exhibits crenulated and boudinaged ankerite banding, quartz + ankerite banding, and lesser calcium carbonate.

Drill intersections have shown the shear to be up to 30 metres in width. The shear zone trends approximately east- west and dips moderately to steeply north. The regional foliation by contrast trends approximately 070°. The Edwards property "Rusty Weathered Zone" and the Cline Property "88-60 Zone" located just west of the FMEL property are examples of auriferous quartz vein zones found within the Northern Shear. In the vicinity of the recognized surface zones on the FMEL property ("Markes North" and "A" zone) the shear also hosts white to grey quartz veins, veinlets and/or stringers which carry pyrite, lesser pyrrhotite and trace amounts of chalcopyrite ± sphalerite ± galena and in some instances visible gold.

The Southern shear (Edwards/Cline shear) has likewise been traced from the Edwards mine property to the west, through the Cline Property and through the FMEL property eastwards to the "E" zone, southeast of Godin Lake, for approximately 6,000 metres. On various surface exposures the shear zone averages approximately 12 to 15 metres in width, but diamond drilling in the area has shown the shear to expand to approximately 60 metres on the Cline Mine property.

In most instances the Southern shear demonstrates more intense deformation and shearing than the Northern shear. Areas of intense shearing feature abundant fe- carbonate alteration, with numerous narrow ankerite and quartz + ankerite bands which are crenulated and boudinaged. The alteration is such that any original minerology or structure has been eradicated.

On the Edwards and Cline properties just west of the FMEL property, auriferous quartz veins have intruded narrow tension shears which branch obliquely for the Edwards/Cline shear, often associated with felsic intrusives trending form 115° to 140°. Historically, these zones have provided the highest grades and most tonnage from mining operations. On the FMEL property, the Markes zone and "B" zone also appear to be intimately related to Felsic intrusives and iron formation trending at similar angles to the predominantly east-west Edwards/Cline shear.

Diamond Drill Program

Three_diamond drill holes totaling 1,450 metres have been completed between March 8 and April 13, 2017. Forage Multi Drilling of Rouyn- Noranda, Quebec was the drill contractor hired to provide NQ wireline core. Core recovery was excellent, with only one detectable 30cm loss of material (ground core) in 1,450 metres of drilling.

Collar locations were spotted using a Garmin Etrex Legend GPS with averaging, and hole azimuths were shot using a compass (magnetic declination 5°W).

All assaying of split core samples was completed by Swastika Laboratories of Swastika, Ontario, using standard assaying procedures for gold. FMEL has implemented a quality control program to comply with best practices in the sampling and analysis of diamond drill core. As part of the QA/QC program, FMEL inserts gold standards (varying from low to high grade) and blanks every 20 samples within the sampling stream.

Diamond drill core samples are transported in security sealed bags for analyses at Swastika Laboratories Ltd. in Swastika, Ontario. Individual samples are tagged in plastic sample bags and sealed. Groups of ten samples are sealed in cardboard boxes and shipped. One half of the diamond drill core is retained on-site, and coarse reject portions of the assayed samples remain in storage at Swastika labs in the event that further verification is required.

The drill core from the program is stored at the FMEL exploration site in Dubreuilville, Ontario.



FMEL March 8 to April 13, 2017 DD Program Hole Locations.

Results

The diamond drill program was developed by the author to test the Northern Shear trending east – west across claim 1174694 on the current property of First Minerals Exploration Ltd (FMEL) to better define the geological, structural and mineralizing environment. The locations of the three drill holes were chosen to test the shear in areas not previously explored. All zones discovered to date that occur within the Northern shear appear to demonstrate elevated gold values within ore shoots which plunge steeply to the east. While many areas along the shear can return anomalous values for gold, the historical zones (Cline "88-60", "Markes North" and "A" zone) have demonstrated elevated grades plunging steeply east. The holes were also designed to test the area between the Northern Shear and the Southern shear area (Edwards/Cline Shear). These diamond drill holes represent the deepest exploration holes drilled in this area.

Following is a summary of results from all holes drilled to date.

* For the purposes of this report an intersection is defined as any assayed length over 1.0 grams per tonne gold.

DDH FM-17-1 (location 0698250E, 5355400N, azimuth 165°, dip -47°)

- Final depth of 450.00 metres, Northern shear zone intersected from a. 14.00 to 26.50 metres.
- 1.92 gpt Au over 1.20 metres intersected from 17.80 to 19.00 metres down-hole
- 2.95 gpt Au over 0.54 metres intersected from 33.40 to 33.94 metres down-hole

DDH FM-17-2 (location 0698605E, 5355555N, azimuth 165°, dip -47°)

- Final depth of 450.00 metres, Northern shear zone intersected from a. 166.20 to a. 317.00 metres.
- 1.10 gpt Au over 0.80 metres intersected from 180.00 to 180.80 metres down-hole.
- 1.71 gpt Au over 0.80 metres intersected from 181.80 to 182.80 metres down-hole.
- 5.16 gpt Au over 1.00 metres intersected from 183.60 to 184.60 metres down-hole.

DDH FM-17-3 (location 0698949E, 5355717N, azimuth 165°, dip -47°)

- Final depth of 550.00 metres, Northern shear zone intersected from a. 296.70 to a. 314.40 metres.
- No significant values







Section FM-17-3

Discussion

The diamond drill program on claim 1174694 has provided important information on the geological, structural and mineralizing environment, and demonstrated the potential of the Northern shear zone to host additional auriferous zones.

Historically, diamond drilling in the area has been performed by drilling north-south, since the shear zones trend roughly east-west and dip 55° to 75° to the north. The author has experience drilling deep holes on the neighboring Edwards and Cline Mine properties. Drilling long holes directly north-south, can result in the end of each hole bending towards the west by as much as 20 degrees in some instances. It is believed the overall regional foliation at 070° causes longer holes drilled north- south to bend with the foliation, resulting in holes that can curve off- section. It was decided to start the holes at an azimuth of 165°, so that the holes would curve towards the west and end up basically on the same north-south section as the commencement of the hole.

The author wished to test the Northern shear in areas not previously drilled, and test the intervening area between the Northern shear and the Southern shear (Edwards/Cline shear). Limited outcrop in the area has led to the historical discovery of gold occurrences and zones. Geophysics has been used to trace the Northern shear for approximately 5,400 metres from the Cline Mine "88-60" zone in the west to the FMEL "A" zone in the east. All of the historical zones with substantial diamond drilling have indicated that "ore shoots" with elevated gold values within the Northern shear, tend to exhibit a strike length of approximately 60 metres and a steep easterly plunge.

The March 8 through April 13, 2017 diamond drill program has been successful in demonstrating the existence of auriferous quartz veining in areas never previously explored in the Northern shear zone. Hole Fm-17-1 was drilled just east of the historical "Markes North" zone, and intersected the shear over a 12.5 metre width at a vertical depth of 15 metres. Grey- white quartz veining with coarsely pyritic margins and carrying 1 to 2% disseminated pyrite, trace chalcopyrite, trace sphalerite and possible galena was intersected returning a grade of 1.92 gpt Au over 1.2 metres. A second quartz carbonate vein was intersected 6.9 metres south of the shear exhibiting coarse pyrite, lesser pyrrhotite and trace sphalerite, returning a grade of 2.95 gpt Au over 0.54 metres, at a vertical depth of 26 metres. In both instances quartz porphyry intrusive dikes were in close proximity.

Hole FM-17-2 was collared 355 metres east, and 155 metres north, of hole FM-17-1. The Northern shear exhibited a greater width in this hole than has been previously witnessed in any historical exploration. The shear exhibited intermittent strong intensity over a width of 150.8 metres, at a vertical depth from 115 to 210 metres. Between 180.00 and 184.60 metres down-hole, three values greater than 1.00 gpt Au were returned with the highest value being 5.16 gpt Au over 1.00 metres. The three sections are separated by 1.00 and 0.80 metres of core which was not sampled. In-fill sampling is required in the future to obtain a proper weighted average for the section. These intersections are highly significant, and represent a new gold discovery. The Northern shear has never historically been drilled at this depth in this area, and these intersections are a minimum of 350 metres east of the

historical "Markes North" showing in an area never before explored by diamond drilling. The potential for more, if not numerous, gold zones within the Northern Shear must be considered a great possibility.

Hole FM-17-3 was collared 344 metres east, and 162 metres north, of hole FM-17-3. The Northern shear was intersected over a width of 17.7 metres, at a vertical depth of 200 metres vertical. The hole intersected similar geology with numerous Felsic Intrusives, but no significant assays were returned from the sampled sections.

Conclusions and Recommendations

The March 8 through April 13, 2017 diamond drill program on the Northern Shear of the FMEL Jacobson and Riggs Project property has been highly successful in demonstrating the possibility of the existence of undiscovered gold zones on the property. The intersections in FM-17-2 represent the first "new" discovery of gold on the property since the 1980's.

The majority of known gold zones in the eastern GLDZ were discovered on limited surface outcrops in the early 20th century. Diamond drilling in the late 1980's led to the discovery of the Goudreau, Lochalsh and Island zones on the Richmont property, the Porphyry and Carbonate zones on the Edwards property and the 88-60 zone on the Cline property. In all instances, the zones did not significantly outcrop on surface.

The property held by FMEL spans almost two Townships, has minimal outcrop, and is vastly underexplored. It stands to reason that many more auriferous zones await discovery with more exploration and diamond drilling on the FMEL property.

It is highly recommended that more work be completed on the FMEL Jacobson- Riggs Project property.

Recommended Exploration Program Phase 1

Outcrop on the property is limited, and any surface gold occurrences have likely been discovered. Previous operators in the area have used geophysics to define the extent of the shear zones crossing the property. The author is recommending a series of GPS- based grids along the Northern and Southern shear zones whereby Mobile Metal Ion (MMI) sampling would be completed to better define areas where gold bearing zones might exist below the surface. Any areas exhibiting anomalous values for gold would then be drill tested.

MMI Survey

4 GPS grids, 200 x 500 metres			
 samples every 15 metres (14 per line X 34 lines) = 476 samp 	les per grid		
-4 grids X 476 samples per grid = 1,904 samples X \$35/assay		\$6	6,640.00
Junior geologist (\$300/day) + Assistant (\$200/day) X 70 days		\$3	5,000.00
Vehicle 7,000 km @ 0.50/km		\$	3,500.00
Lodging (FMEL House, Dubreuilville)			N/C
Meals (70 days @ \$50/day)		\$ 3	3,500.00
	Total: 15% contingencies: Grand Total:	\$10 1 \$12	8,640.00 6,296.00 4,936.00
Diamond Drilling			
Mob and Demob		\$	5,000.00
1,500 metres @ \$78/m (all-in)		\$1	.17,000.00
Assays 200 X \$17/assay (shipping included)		\$	3,400.00
Geologist \$500/day X 30 days		\$	15,000.00
Vehicle 6,000km X 0.50/km		\$	3,000.00
Lodging (FMEL house Dubruielville)			N/C/
Meals (30 days X \$25/day)		\$	750.00
Report/drafting/assessment filing 10 days X \$500/day		\$	5,000.00
	Total: 15% contingencies: Grand Total:	\$1 \$ \$1	49,150.00 22,373.00 71,523.00

Grand Total MMI Survey and Diamond Drilling: \$296,459.00

References

Archibald, F. T. Diamond Drill Logs and Sections, Vega Gold Explorations, 1980-81

Arias, Z. G. and Heather, K. B. Regional Structural Geology Related to Gold mineralization in the Goudreau- Lochalsh area, District of Algoma, 1987

Bevan, P. A. A Report on the Geology and Mineral Resources of Pele Mountain Resources Inc., Wawa properties- Jacobson and Riggs Townships, 1997

Bruce, E. L. Geology of the Goudreau-lochalsh Area, ODM annual Report, 1940

Cooper, M. S. 2010 Drill Program Report for Pele Gold Corporation, Highland Gold Project, 2010

Delisle, PC. Geological evaluation of the Markes Zone, Jacobson township, Goudreau- Lochalsh Area, 1999

Delisle, P-C. Diamond Drill Logs, Pele Mountain Resources Inc., 1998-99

Edgar, B. Edwards Mine Property Technical Report, Jacobson Township, Ontario, prepared for Strike Minerals Incorporated, 2013

Grant, J. C. Geophysical Report for Pele Mountain Resources Inc. on the Wawa Property, Jacobson Township by Exsics Exploration Ltd, 1997

Heather, K. B. and Arias, Z. Geological and Structural Setting of Gold Mineralization in the Goudreau-Lochalsh Area, Wawa Gold Camp, 1992

McBride, D. NI43-101 Report on the Jacobson Township Property of Cline Mining Corporation, 2009

Sage, R. P. Geology of Aguonie, Bird, Finan and Jacobson Townships, District of Algoma, OGS Open File Report 5588, 1993

Srivastava, P. and Bennett, G. Geology of Riggs and West Townships, District of Algoma, OGS Report 174, 1978

Walker, E. C. Highland Project Technical Report, Wawa, Ontario 2007

Williams H. R. et al, Wawa Subprovince, Geology of Ontario, OGS special volume 4, 1991

Various Authors, Diamond Drill Hole Logs and Sections, Pele Mountain Resources Inc., 1996-97/1998-99

Various Authors, Horizontal Aero-Magnetic Gradient and XDS VLF-EM Survey by Terraquest Ltd. for Prodigy Gold Inc., 2012

Various Authors, Drill holes database, Abandoned Mines and Mineral Deposits Inventory, MNDM website, OGS

CERTIFICATE OF AUTHOR

I, Bruce Alexander Edgar, Honors BSc., P. Geo, do hereby certify that: I am currently employed as a Consulting Geologist residing at: 5782 Highland Avenue, Niagara Falls, Ontario, L2G-4X4

I graduated with an Honors Bachelor of Science Degree in Geological Sciences from Brock University in 1981.

I am a practising member of the Association of Professional Geoscientists of Ontario (Registration Number 2018).

I have worked as a geologist for over 30 years since graduation from Brock University. My experience includes conception, planning/budgeting, implementation and completion of numerous surface geological, geophysical, geochemical programs, and underground programs on many properties for numerous Exploration and Mining companies. The work has included the writing of project reports and technical reports.

This report is <u>not</u> an NI 43-101 technical report. This Diamond Drill Program Report has been completed for First Minerals Exploration Limited, a non- publicly traded company, to provide summary data on the FMEL Diamond Drill program and act as a tool to plan future exploration activities.

I have had prior involvement with many areas of the current FMEL property having worked as a geologist for a number of companies on claims in the area over the past 30 years.

I have received no compensation for this report other than normal consulting fees.

Dated this 20th day of May, 2017.

Bruce Edgar, Honors BSc, P. Geo.

Appendix 1

Diamond Drill Logs



v (-	-	-								
3	PROPER	ту: Јас	obson-Riggs		COMPANY: Fir	st Minerals Exploration Ltd	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH		U E No	FM-17-	1	Shoot No.	1			
∞	HOLE No	.FM-17	7-1	LENGTH450.001	'n	EXTENSION:								HOLE NO. I WITT / SHEEL NO. I							
-	LOCATI	ON APPR	ox.Claim 1174694 J	Jacobson Twp	SURVEYED					-			Samples: 0885- 0902								
0	LATITUI	DE:5355	400N (NAD 83,	Zone 16)	DEPARTURE:06	98250E							- Dia NQ	amond Dr Core sto	rill Contracto ored at FMEL	r: ForageN facility, I	1ultidrillir Dubreuilvi	lle, On.			
	ELEVAT	TION: 422	2m AZIMUT	тн: 165°	dip:-47°	LIGHT LOG								GGED I	BY: Bruc	e Edg	ar (HB	Sc, P.Ge	0.)		
N	START	March	8, 2017	FINISHMarch 2	1, 2017	COLLAR SURVEY						2			2	ς.		÷			
	FOOT	ГAGE								SA	AMPLE					ASS	AYS				
	-				DESC	CRIPTION			NUMPI	70	FOO	OTAGE									
	FROM	10			<i>6</i>				NUMB	FROM		то то	TAL	g/t	CHECK	Av.	Oz/t	CHECK	A		
	0.00	3.00	CASING/OVE	RBURDEN																	
	3.00	11.02	MAFIC VOLC - medium to da tr to ≤1% disse - after 5.90m- f few cross-cuttir -7.16 – 9.90m-	ANIC rker grey, fine gr eminated pyrite v ine ca- carbonate ng white quartz v MINOR SHEAF	rained, initial w vith occasional e bands occur @ veinlets R ZONE	eak foliation 40° to C. A., wea coarser cubic py, lack of magn 0 40° to C.A. and – increasing	k ca- carboniti etism y stronger folia	zation	,												
			 banding/shear Volcanic exhibits shearing ends o lower contact 	ing @ 60° to C.A its darker and lig n rusty weathere sharp @ 60° to 0	A., 30% siliceou hter bands- siliceou ed fracture @ 65 C.A.	us/ankerite banding with mino ceous/ankerite bands boudinag to 70° to C.A few x-cutting	ca- carb,- host ed- tr fine py- sil/ank bands,	Mafi	c												
	11.02	11.90	FELSIC-INTER - medium grey, 60° to CX.A t siliceous/ankeri - lower contact	RMEDIATE INT aphanitic ground o 1% fine, dis sp te bands sharp on rusty w	TRUSIVE dmass with prol by up to 3mm,- 1 reathered fractur	ific fine/medium siliceous gra ack of ca- carbonitization,- fe re 60° to C.A.	ins,- well foliat w narrow	ed @								PROVIN OFF RE	CE-SU CE-SU CE-SU AY 25	VED	-		
	11.90	18.91	MAFIC VOLC. - f gr as before, carbonitization	ANIC - med to darker g initially decrease	grey,- increasing es down-hole- a	gly foliated down-hole @ 60° ppearance of sil/ank banding i	to C.A mild c ncreasing down	a- 1-								A.M.		Pl	Л.		

PROPERTY: COMPANY: HOLE No. FM-17-1 SHEET No.2

FOC	DTAGE	DESCRIPTION	SAMPLE					ASSAYS							
EDOM	то	DESCRIPTION	NUMPED	FOOTAGE											
FROM	10		NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.			
		 14.00m- <u>SHEAR ZONE</u> -commences arbitrarily- in general host MV is highly altered with darker and lighter banding- 60% sil/ankboudinaged banding with darker bands often containing fine agglomerations py aligned in pseudo-bands- schistose along shear plane- generally 1-2% dis spy with local agglomerations to 10- 15% and trpo(magnetic)- some x-cutting white qtz/minor ank veining -18.36- 18.79- 90% grey/white qtz veining @ 60° to C.A coarsely pyritic margins with fine dis spy to 1-2% within veining, trcpy, trsph and possible tr galena. -lower contact area banded shearing and finely banded py @ 65° to C.A. 	0885 886 887 888 889 890	15.00 16.00 16.60 17.20 17.80 18.40	16.00 16.60 17.20 17.80 18.40 19.00	$ \begin{array}{c} 1.00\\ 0.60\\ 0.60\\ 0.60\\ 0.60\\ 0.60\\ \end{array} $	0.01 0.03 0.05 0.02 0.61 3.24		·						
18.91	24.80	FELSIC INTRUSIVE- QUARTZ PORPHYRY - generally light beige-grey,- aphanitic groundmass with prolific qtz eyes to 3mm in size- well foliated in contact areas @ 55° to C.A more weakly foliated towards center of the unit- tr to □ 1% disspy in places- some slightly rusty fractures- occasional fine x-cutting sil/ank bands - lower contact sharp @ 60° to C.A.	891	19.00	19.60	0.60	0.07								
24.80	153.90	 MAFIC VOLCANIC as before at 14.00m- <u>SHEAR ZONE continues to 26.50m</u>- arbitrary contact- 30- 40% boudinagedqtz/ank banding @ 60° to C.A. 25.60- 25.90- 90% qtz+ ank veining @ 50-60° to C.A. with 3-4% py banding after 26.50- unit is strongly foliated with frequent to abundant fine ca-carb banding and fracture-fill- minor siliceous/ank banding decreasing down-hole- unit is f gr with fine disspy ≤ 1%-slightly greenish (chloritic) grey- foliation is 60° to C.A. 31.65- 3cm calcite veinlet @ 50° to C.A. within minor fault with slickenslide contacts 33.40-33.94- 70% qtz, lesser ca-carb veining @ 50° to C.A. with coarse bands (to 5mm) of py and lesser po, trsph 	892 893 894	24.70 25.50 25.90 33.40	25.50 25.90 26.50 33.94	0.80 0.40 0.60	0.04 0.72 0.07	0.08							

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HOLE No. FM-17-1 SHEET No. 3

FOOT	AGE	DESCRIPTION		SAM	PLE		ASSAYS						
FROM	то	DESCRIPTION	NUMBER		FOOTAGE					2.1	6110 GV		
				FROM	то	TOTAL	g/t	СНЕСК	Av.	Oz/t	CHECK	Av.	
		-34.27-34.42- FELSIC INTRUSIVE DIKELET - beige/light grey with aphanitic groundmass and fine, prolific qtz eyes- foliated 50° to c.A tr dis spy- sharp contacts @50°											
		- MV continues well foliated @ 50° to C.A. – frequent to more abundant ca-carb bands- unit is strongly carbonitized – tr fine dis spy- somewhat banded appearance with occurrences of more green- chloritic bands											
		-37.82 -38.10- FELSIC INTRUSIVE DIKELET (felsite) - medium grey- hard – aphanitic to fine grained, blocky fractures, sharp contacts @ 50° to C.A.											
		-40.92- 41.80- FELSIC INTRUSIVE DIKELET (felsite) - as at 34.27- beige/light grey, aphanitic groundmass with prolific fine qtz eyes, foliated @ 50°, tr fine dis spy- sharp contacts 50° to C.A.											
		- host MV continues as before, but with increasing magnetism (very fine magnetite grains visible)											
		- after 46.00m- possible pillow selvages visible, more moderate ca carbonitization- occasional increases in foliation intensity- some patchy calcite blebs, bands and fracture-fill											
		-after 53.00m- coarse magnetite grains visible											
		-53.92- 54.13- rusty weathered, vuggy fracturing @ 50° to the C.A.											
		-after 54.00m- unit is moderately to strongly ca- carbonitized + magnmetic, frequent calcite fracture-fill remains		-									
		-64.15- 65.74 MINOR SHEAR - 15% siliceous/ca-carbonate banding @ 60-65° to C.A unit remains strongly magnetic											
		-66.46- 68.70 MINOR SHEAR as above											

PROPERTY: COMPANY: HOLE No. FM-17-1 SHEE									
	FOOT	FAGE	DESCRIPTION			SAM	IPLE		
	FROM TO						FOOTAGE		
							то	TOTAL	g/t

	FROM	ТО	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
-70.57-71.29- FELSIC INTRUSIVE (felsite) -as at 65.74, but non-magnetic- contacts sharp @ 50°									
after 71.20 host MV becomes harder v fine grained with enidotitic mottling strong magnetism									
-alter /1.29- host www becomes harder, v. hile granied with epidottic mothing, strong magnetism									
-73.80-74.07- FELSIC INTRUSIVE (felsite) -as before but darker with epidote + hematite fracture lining									
-after 74.07- host MV exhibits stronger foliation @ 60° to C.A unit is hard, strongly magnetic and exhibits epidotitic banding and mottling							×		
-75.00- 77.50- appearance of coarse py cubes to 3mm and pseudo-banding, locally to 3% py							2 		
-after 78.50m- epidote content decreases to minimal- in general unit is a dark, slightly chloritic green-grey, fine grained with slightly coarser areas- weal foliation about 50° to C.A frequent ca-carb fracture lining and stringers at all angles, but most commonly 35 to 50° to C.A weakly ca-									
carbonitized throughout + lack of magnetism- tr fine disspy- very occasional epidote fracture lining									
-after 99.00m- unit continues slightly green-grey, lack of epidote content, lack of magnetism, only local weak ca-carbonitization- weak foliation, more massive appearance- frequent to more occasional ca-carb fracture fill- tr to $\leq \frac{1}{2}$ dis spy									
-118.00- 123.00- some blocky, calcite filled fracturing									
-after 123.00m- unit becomes lighter in colour, less chlorite content- more dark grey- weak foliation development @ 45-50°- lack of magnetism remains- more frequent ca-carb banding and fracture- fill along foliation									
-133.02- 133.56- FELSIC INTRUSIVE (felsite) - as before, sharp contacts @ 45° to C.A.		1							
-142.68-146.62- FELSIC INTRUSIVE (felsite)									

ASSAYS

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PROPERTY: COMPANY: HOLE No. FM-17-1 SHEET No. 5

FOOT	ГАGE	DESCRIPTION		SAM	PLE		ASSAYS						
FROM	TO	DESCRIPTION	FOOTAGE			-		-					
FROM	10		NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.	
		-as before- well foliated @ 45°- trpy- sharp contacts 45° to C.A.											
		-after 146.62- MV is dark chloritic green and well foliated $@45^{\circ}$					12						
		 -150.00- 152.15- SHEAR ZONE - 25% siliceous/ca-carb boudinaged banding and darker chloritic bands- schistose along foliation switching to 55°- tr to locally 2% py as pseudo bands and occasional fine magnetite bands -lower contact sharp @ 55° 											
153.90	157.02	FELSIC INTRUSIVE - beige/light grey- aphanitic groundmass to fine indistinguishable grains- weak foliation 40 -45°- (unit looks like qtz porphyry without qtz eyes)- lower contact sharp 45° to C.A.											
157.02	205.42	MAFIC VOLCANIC - v fine to f grained, dark chloritic green- well foliated initially @ 35-40°- abundant carb fracture fill and fractured appearance											
		-158.28- 7cm FELSIC INTRUSIVE dikelet @ 45°											
		-after 158.31- host MV becomes slightly epidotitic, increasing down-hole to mottled, pseudo- bands epidote- unit remains dark chloritic green, well foliated 45° to C.A becomes increasingly magnetic with grains, masses and occasional pseudo bands of magnetite- diss grains and masses py- unit develops a mottled appearance of lighter and darker areas											
		-after 165.00m- epidote content rapidly dissipates- unit displays weak to moderate ca- carbonitization with frequent calcite stringers + fracture fill commonly @25-23° + 45° to C.A intermittent magnetism- tr to \swarrow 1% dis spy											
		-after 172.00m- unit is moderately to locally strongly magnetic- carbonate stringers and fracture fill less frequent											
		- after 180.00m- unit more medium grey appearance and quite strongly magnetic											

PROPERTY:	COMPANY:	HOLE No. Fm-17-1	SHEET No. 6
	A DATA STRUCTURE OF		

FOO	TAGE	DESCRIPTION		SAM	IPLE				ASSA	YS		
FROM	то	DESCRIPTION	NUMBER	FROM	FOOTAGE	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		 -fine magnetite grains- weak to moderate foliation @ 45°- fine dis spy to < 1%- occasional to more frequent carbonate stringers- occasional po agglomerations and fine magnetite grains -after 192.00m- medium grained appearance and ca-carb spotting- unit remains dark chloritic green in general- strongly magnetic- weak foliation 40° to C.A with ca-carb stringers commonly @ 40 or 20° to C.A. - stronger ca- carbonitization towards lower contact, sharp @ 40° to C.A. 		FROM		TOTAL			A		einiek	
205.42	216.71	FELSIC INTRUSIVE - light grey-tan, aphanitic to v.f. grained groundmass with fine to coarser (2-3mm) qtz eyes prolific, weakly foliated 40° to C.A., trpy, occasional ca- carb fracture fill 40° to C.A., -blocky fracturing	896	205.30	205.60	0.30	0.03				-	
216.71	222.23	MAFIC VOLCANIC (Gabbroic Texture) - dark chloritic green, medium/coarser grained appearance (gabbroic texture),- moderately to more strongly foliated @ 40° to C.A.,- coarse acicular- elongated chloritic phenocrysts and masses with lighter groundmass color- moderately to locally more strongly ca- carbonitized- frequent ca- carb fracture fill and stringers along foliation, with some x-cutting - lower contact sharp @ 45° to C.A.	897	216.50	216.90	0.40	0.01					
222.23	261.08	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before at 205.42m- frequent to prolific qtz eyes up to 4mm in diameter- general weak foliation @ 45° to C.A light grey-tan colour- aphanitic groundmass- rare ca carb fracture fill,- blocky fracturing, most common along foliation,- some sections appear slightly glassier, and some more opaque,- some areas have fine siliceous webbing between qtzphenos- possibly more than one generation of intrusion										
		240.27- 240.46- 1 to 2cm white to glassy qtz veinlet @ 20° x-foliation, trpy	898	240.20	240.70	0.50	0.001					
		243.17- irregular, discontinuous 0.5 to 3cm qtz veining	899	243.00	243.30	0.30	0.001					
		irregular, sharp lower contact										

PROPERTY:

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HOLE No. FM-17-1

SHEET No. 7

FOOT	TAGE	DESCRIPTION		SAM	PLE				ASSA	YS		
FROM	то	DESCRIPTION	NUMBER	FROM	FOOTAGE TO	TOTAL	g/t	CHECK	Av.	Oz/t	СНЕСК	Av.
261.08	402.38	MAFIC VOLCANIC - dark chloritic green, initially fine to med grained,- weakly foliated @ 40° to C.A.,- some initial ca- carb fracture fill and quite strongly ca –carbonitized- lack of magnetism										
		-after 264.00m- unit becomes quite strongly magnetic- fine magnetite grains visible- tr to less than 1% py- occasional coarser, more gabbroic appearing sections										
		-occasional carb fracture fill and veinlets most commonly @ 25° to C.A., seen infrequently after 276.00m										
		-unit remains quite homogeneous										
		-309.40-317.50- 5% calcite veining and veinlets 40 to 70° to C.A.										
		-unit varies from fine/med grained to locally coarser, gabbroic appearing sections- remains strongly magnetic- generally weakly foliated to massive appearance									-	
		-323.16- 324.09- FELSIC DIKE (FELSITE) - sharp 40° contacts- light grey- fine indistinguishable grains- blocky fractures with chloritic and siliceous infill										
		-after 324.09m- unit quite massive, dark chloritic green- med grained and strongly magnetic- occaisional slightly epidotitic coloration			y.	-						
		-341.00- 344.00m- decreasing magnetism- increased foliation and 2 to 3% carbonate banding @ 40° to C.A.										
		-after 345.00m- unit develops blotchy, spotted appearance (lighter colored feldpsars?)- remains dark chloritic green with occasional, sporadic ca- carb stringers/fracture fill, most commonly @ 40 to 50° to C.A.						ч.				
		- 378.85- 7cm calcite, minor qtz veinlet @ 35° to C.A., minor py weak foliation in the area around veining	900	378.70	379.00	0.30	0.001					

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PROPERTY:	COMPANY:	HOLE No. FM-17-1	SHEET No. 8

FOOT	ГAGE	DESCRIPTION		SAM	IPLE		ASSAYS								
FROM	то	DESCRIPTION	NUMBER		FOOTAGE										
FROM	10			FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.			
		- unit continues to display lack of magnetism and lack of pervasive carbonitization though frequent siliceous/ca- carb stringers and fracture fill remains- locally slightly epidotitic	901	400.80	401.10	0.30	0.001								
		- 400.95m- 6cm calcite, lesser qtz veining @ 30 to 35° to C.A., trpy						10							
		-weak foliation development to lower contact, sharp @ 45° to C.A.													
402.38	408.16	 FELSIC INTRUSIVE (FELSITE) - chilled aphanitic contacts- unit has fine, indistinguishable grain size- light grey, slightly tanblocky, fine chloritic lined fractures- appears as a Qtz porphyry without the qtz eyes- locally trdisspy- weak foliation/ common fracture direction 40° to C.A. - lower contact chilled, sharp @ 35 to 40° to C.A. 													
408.16	427.44	MAFIC VOLCANIC -as before-													
-		-after 417.00m- foliation development @ 45° to C.A. and weak to locally moderate ca carbonitization- minor ca carb bands and fracture fill/stringers													
		-421.10- 421.50- 30% ca carb/lesser qtz veinlets/veining @ 60° to C.A.,- tr to 2% py locally	902	421.10	421.50	0.40	0.01								
		- host unit becoming finer grained and spotted appearance towards lower contact, sharp @ 60° to C.A.					P.			2					
427.44	434.18	FELSIC INTRUSIVE (QTZ PORPHYRY) -as before- light grey/tan colour, aphanitic to v.f. grained groundmass with coarser to 2-3mm qtz eyes- weakly foliated @ 60° to C.A indistinguishable groundmass grain size- some blocky fractures- becoming tan coloured to slightly pinkish towards lower contact, sharp @ 40° to C.A.		8											
434.18	447.05	MAFIC INTRUSIVE (DIABASE) - aphanitic, tan coloured chilled upper margin, becoming medium grained, dark grey-black, homogeneous and strongly magnetic- rare siliceous fractures @ 20° to C.A.													

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PROPERTY:	COMPANY:	HOLE No. FM-17-1	SHEET No. 9

FOO	TAGE	DESCRIPTION		SAM	IPLE		ASSAYS						
FROM	то	DESCRIPTION	NUMBER	FROM	FOOTAGE	ΤΟΤΑΙ	g/t	CHECK	Av	Oz/t	СНЕСК	Av	
		- becoming aphanitic and chilled, hard and siliceous towards lower contact, sharp @ 40° to C.A.		FROM		IOIAL	g/t	CHECK	A1.		Ciller		
447.05	450.00 EOH	MAFIC VOLCANIC - initially highly silicified and hard- aphanitic to fine grained- dark grey/bl;ack and strongly magnetic- grain size increasing and magnetism decreasing down-hole- becoming more green-grey towards EOH											
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PROPER	ту: Јасо	obson-Riggs Pr	oject	COMPANY:Firs	t Minera	als Exploration Ltd	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH	HOLE No.	FM-17-2		Sheet No.	1	
HOLE N	o.FM-17	-2	LENGTH 450.00)m	EXTEN	SION:							C 1	0002 00	120			
LOCATI	ON APPRO	OX.Claim 1174694	Jacobson Twp	SURVEYED									Samples	0903-09	928			
LATITU	DE: 5355	5550N (NAD 8	3, Zone 16)	DEPARTURE: 6	98600E								NQ Core stored at FMEL facility, Dubreuilville, On.				le, On.	
ELEVAT	TION: 414	4m AZIMU	тн: 165°	DIP: -47°	1	LIGHT LOG	1						LOGGED I	sy:Bruce	Edgar	r (HBS	c, P.GE	0.)
START	March	22, 2017	FINISHApril 3,	2017	COLLA	R SURVEY						∟			5			
FOO	ГAGE						= .			SAN	MPLE				ASSA	AYS		-
				DESC	RIPTI	ON A			NUMPED		FOOT	AGE						
FROM	ТО								NUMBER	FROM	T) TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
0.00	6.00	CASING/OVI	ERBURDEN						-								10	
6.00	57.31	MAFIC VOLO - fine grained- magnetic but of increasing foliation - 15.00-21.50m - strong foliation banded and althe banding with 3 - 18.03- 18.0 masses and pso - host unit deconder - host unit deconder - host mv grade becomes harded with only loca blocky, broker magnetic - lower contact	CANIC medium to darke dcreasing down-he ation intensity tow - <u>SHEAR/ALTE</u> on/shearing @ 45 cered displaying b 3% qtz + ankerite 63- greatest conce eudo bands of po, reasing foliation i d unit returns to da ually becomes da er and increasing! lly slightly coarse n core towards low t sharp @ 70° to 0	er chloritic green ole- initial mod- wards shearing <u>RATION ZOM</u> ^o to C.A. initial oth ca carb and veining entration of qtz lesser py, trcpy ntensity, increa arker chloritic g rker grey/black y silicified, with er areas- there is ver contact- uni	h- foliate erate ca o $\frac{E}{2}$ ly, switc ankeritio + ank + o y up to 50 sing mag reen colo - losing o n negligil a slight t is highl	d 45° to C.A initially n carbonitizationdcreasing hing to 70° by 17.80m-1 c alteration- tight, alterna ca carb veining about 40 % locally gnetism down-hole- ca ca bur and fine grain size chloritic green colour do ble ca carbonitization- gr increase in irregular ca c y silicified and increasin	noderately down-hole- nost mv is lig ting light and %- specks/bl arb decreases wn-hole- unit ain size is fin arb fracture gly strongly	ghter, d darl ebs, t ne, fill in	x 903 904 905 906	17.40 STAN 18.00 18.70	18.0 Au(18.7 19.3	00 0.60 31 70 0.70 70 0.60	0.001 1.09 0.03 0.01	0.07				

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PROPERTY:	COMPANY:	HOLE No. FM-17-2	SHEET No. 2
			A REAL PROPERTY AND A REAL

FOO	TAGE	DESCRIPTION		SAM	PLE				ASS	AYS		
FROM	то	DESCRIPTION	NUMBER		FOOTAGE							
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
57.31	95.50	MAFIC INTRUSIVE (DIABASE) - initial contact area is chilled, tan colour and aphanitic- unit generally dark grey/black- grain size increasing to fine/medium down-hole- unit is strongly magnetic and homogeneous with lack of foliation- hard, blocky fracturing and spotted with magnetite- some siliceous fracture fill- grain size decreasing towards lower contact, harder and more siliceous - lower contact sharp, in broken, blocky core		•								
95.50	102.90	MAFIC VOLCANIC - as before- initially very fine gr, hard and silicified near upper contact- frequent to increasingly prolific ca carb stringers and fracture fill along foliation becoming stronger down-hole @ 55° to C.A blebby, boudinaged and somewhat crenulated ca carb bands (+ possible ankerite content) - lower contact sharp @ 50° to C.A.										
102.90	107.02	FELSIC INTRUSIVE - aphanitic to fine, indistinguishable grains- light tan/grey colour- hard, blocky fracturing- weakly to moderately foliated @ 50° to C.A some irregular, glassy, discontinuous qtz fracture fill- occasional fine qtz eyes and trpy - lower contact sharp @ 60° to C.A.										
107.02	168.09	MAFIC VOLCANIC -as before- initially well foliated @ 50° to C.A fine grained- dark chloritic green- frequent ca carb bands and blebs (+ ankerite?) along foliation- decreasing in intensity down-hole -116.20- 116.48m- dikelet FELSIC INTRUSIVE as at 102.90m- fine qtz eyes- sharp, irregular contacts - 119.13- 120.15m- 70% intercallations of FELSIC INTRUSIVE dikelet, irregular contacts, qtz							×			
		eyes visible -after 131.00m- increasing pervasive carbonitization and more frequent ca carb stringers and fracture fill @ 50° to C.A. to about 140.00m										

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PROPERTY:	COMPANY:	HOLE No. FM-17-2	SHEET NO. 3
			CUPPET N. 3

FOO	TAGE	DESCRIPTION		SAM	1PLE				ASS	SAYS		
FROM	то	DESCRIPTION	NUMBER		FOOTAGE							
ГКОМ		· · · · · · · · · · · · · · · · · · ·		FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		- after 140.00m- unit has increasingly stronger magnetism- occasional coarser magnetite grains visible- decreased ca carbonitization										
		- after 153.00m- unit magnetism decreases rapidly, increased ca carb and foliation begins @ 50° to C.A. and increasing in intensity down-hole										
		 - 158.60- 158.80m- MAFIC INTRUSIVE (LAMPROPHYRE) DIKE - fine to coarse grained, unequigranular- dark brown/grey- strongly magnetic- sharp contacts across foliation of host MV @ 40° to C.A. 										
	k	- 159.30- 159.58m- DIKE as above						-				
		- host MV becoming increasingly foliated down-hole $@$ 50 ° to C.A. with foliation becoming stronger and switching to 70° to C.A. by shear zone		×								¥
		 -a. 166.20 <u>SHEAR ZONE COMMENCES</u> - about 20% siliceous/ankerite crenulated and boudinaged banding- alternating lighter and darker bands- host MV lighter green/grey- shearing/banding @ 70° to C.A. 	909	165.80	166 40	0.60	0.01					
		- 166.40- 166.90m- 80% white to light grey qtz veining + ankerite + possible fine tourmaline banding all @ 60 - 70° to C.A fine po + py, often flattened along shear plane and along fine tourmaline bands	910 911 912	166.40 167.00 167.80	167.00 167.80 168.20	0.60 0.80 0.40	0.10 0.06 0.49					
		- crenulated qtz + ankerite banding continues to lower contact, sharp @ 70°				-						
168.09	173.92	FELSIC INTRUSIVE (QTZ PORPHYRY) - beige/tan colour, aphanitic with prolific qtz eyes to 3mm- initial weak foliation @ 60 to 70° to C.A., but more massive centrally- 1 to 2% diss cubic py throughout- slightly pinkish tinge towards lower contact, sharp @ 70° to C.A.										

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PROPERTY:	COMPANY:	HOLE No. FM-17-2	SHEET No. 4

FOOT	ГАGE	DESCRIPTION		SAM	IPLE	-			ASS	AYS		
FROM		DESCRIPTION	NUMBER		FOOTAGE							
FROM	10		NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
173.92	219.15	MAFIC VOLCANIC - as before- <u>SHEAR ZONE/ALTERATION</u> Continues - initial siliceous qtz and ankerite crenulated banding with 1 to 2% diss cubic py- shearing weakens and intensifies locally										
		-179.92- 180.10- FELSIC INTRUSIVE (QTZ PORPHYRY) DIKELET -as before- beige/tan with prolific qtz eyes- sharp contacts @ 50° to C.A.										*
		-180.10- 180.73- 60% sugary white to grey qtz veining- dark MV bands and to 10% pseudo bands py centrally	913	180.00	180.80	0.80	1.10					
		-181.86- 187.20- 60% banded IRON FORMATION with interstitial highly altered to silicified	914	181.80	182.80	1.00	1.71					
		MV- IF consists of white to grey sugary qtz with bands/blebs and grains of predominantly py,	915	183.60	184.60	1.00	5.08	5.07				
		lesser po + abundant granular magnetite to 15 to 20%- bands appear crenulated and folded, but	916	184.60	185.60	1.00	0.23					-
		generally 60° to C.A bleached host MV in places	917	185.60	186.30	0.70	0.24					
		- after 187.20- host MV strongly foliated to sheared at varying intensity- abundant ca carb + ankerite banding, crenulated/folded and boudinaged- minor qtz + ankerite bands	918	187.60	188.30	0.70	0.04				-	
		- 187.69- 188.30- minor qtz + ankerite bands, pseudo IF	R.		-							
		- 199.56- 200.70- Pseudo IF- similar to 181.86m but with some x-cutting qtz + ank veining and up to 50% sulphide banding towards lower contact	919	199.50	200.50	1.00	0.20			1		
	-	- 202.40- 203.70- Pseudo IF as above	920	202.50	203.50	1.00	0.11					
		 - 207.64- 208.36- FELSIC INTRUSIVE Dikelet -light grey, fine to medium indistinguishable grains- well foliated @ 60° to C.A. and 60° contacts 				and a						
		- 209.25 – 210.25- Pseudo IF 10% white qtz + minor ank, 5- 7% banded py, lesser magnetite and minor po @ 55-65° to C.A.	921	209.20	210.30	1.10	0.07					

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PROPERTY: COMPANY: HOLE No. FM-17-2 SHEET No. 5

FOO	TAGE	DESCRIPTION	ć.	SAM	IPLE				ASS	AYS		
FROM	то	DESCRIPTION	NUMBER	EDOM	FOOTAGE	TOTAL	alt	CHECK	A.,	0=/4	CHECK	
FROM 219.15 222.70	то 222.70 242.54	 DESCRIPTION - 215.97- 216.86- as above- banding @ 55 to 60° to C.A., trcpy - 217.00- 217.70- FELSIC INTRUSIVE Dikelet- as before- slightly pinkish/tan- few x-cutting qtz + ank veinlets- sharp contacts @ 60° to C.A. - lower contact sharp 60° FELSIC INTRUSIVE - as before- slightly pinkish/tan- occasional qtz eyes- foliated 60° to C.A few intercallations of sheared and ankeritized MV- to 1% diss fine py locally - lower contact sharp @ 60° MAFIC VOLCANIC- <u>SHEAR ZONE/ALTERATION Continues</u> - as before- unit continues to display both ca carb and ank + minor qtz, crenulated/boudinaged and blebby bands- shearing varies in intensity, generally 50 to 55° to C.A., x-cutting bands 222.80- 223.08- white qtz + ank and 10% fine, irregular tourmaline bands and some coarse agglomerations py, veining @ 60° to C.A. - 223.60- 223.74- FELSIC INTRUSIVE Dikelet - as before- 60° to C.A. 	NUMBER 922	FROM 215.80	FOOTAGE TO 216.90	TOTAL 1.10	g/t 0.21	CHECK	Av.	Oz/t	CHECK	Av.
		 - 229.84- 231.00- FELSIC INTRUSIVE Dikelet with MV intercallations - as before- qtz eyes- sharp contacts @ 60° - 230.37- x-cutting 9 cm qtz+ ank veinlet - after 236.50- shear zone intensity decreases- only 2 to 3% ca-carb and ank banding- fine dis spy remains throughout - lower contact sharp @ 50° to C.A. 										

PROPERTY:	COMPANY:	HOLE No. FM-17-2	SHEET No. 6

FOO	TAGE	DESCRIPTION					ASSAYS								
FROM	то	DESCRIPTION	NUMBER		FOOTAGE										
242.54	011.55		-	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.			
242.54	244.55	- as before- slightly pinkish-tan- minor qtz eyes- foliated moderately @ 60° to C.A to 1% dis spy- fine tournaline lined fractures- lower contact sharp, irregular, on 16 cm qtz + ank + lesser tournaline irregular veining	923	244.30	245.30	1.00	0.07								
244.55	262.94	MAFIC VOLCANIC <u>SHEAR ZONE ALTERATION Continues</u> - as before- intense shearing and banding in this area- initial contact area with 5% banded py and narrow qtz + ank veinlets													
		- after 251.50m- shear zone intensity lessens- crenulated/ boudinaged/ blebby ca carb + ank banding down to 3 to 4%- foliation/shearing @ 50 to 55° to C.A.													
		- lower contact sharp, silicified, irregular contact													
262.94	266.80	MAFIC INTRUSIVE (DIABASE) - dark, chilled, aphanitic margins- more fine grained towards center of dike- dark grey/black- homogeneous- massive- blocky fractures- strongly magnetic- lower contact sharp, irregular	924	STAN	Au48		16.73								
266.80	267.60	MAFIC VOLCANIC - as before- strong foliation/shearing continues - lower contact sharp @ 45° to C.A.													
267.60	273.75	 FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- aphanitic to v. f. grained groundmass, with random, frequent qtz eyes- slightly pinkish/tan colour- weakly to moderately foliated/sheared @ 50° to C.A fine, dark tourmaline fracture lining- trpy - lower contact sharp @ 45° to C.A. 													
273.75	277.30	MAFIC VOLCANIC <u>SHEAR ZONE ALTERATION Continues</u> - as before-													
		- after 276.00m- shear zone increase in intensity with up to 30% bleached and ank + minor qtz										×			

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PROPERTY: COMPANY: HOLE No. FM-17-2 SHEET No. 7

FOOT	TAGE	DESCRIPTION		SAN	1PLE				ASS	AYS		
FROM	то	DESCRIPTION	NUMBER		FOOTAGE							
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		crenulated/ boudinaged banding typically @ 45° to C.A.										
		-lower contact irregular on white qtz, minor ank + tourmaline veining										
277.30	279.40	FELSIC INTRUSIVE (QTZ PORPHYRY) + QTZ VEINING - pink/tan colour- aphanitic with qtz eyes- weak foliation 45° to C.A. with black, tourmaline filled	925	277.30	278.30	1.00	0.04	0.03				
		fractures- unit is 40% Qtz Porphyry and 60% white, xllnqtz +ank and minor tourmaline with minor py and one 2 x 3cm mass of cpy on upper contact	926	278.30	279.40	1.10	0.01					
279.40	300.60	MAFIC VOLCANIC <u>SHEAR ZONE Continues</u> - as before- 30 to 40% crenulated/boudinagedank + qtz banding and shear alteration- most intense shearing and alteration/ banding ending around 288.00 m										
		- strong foliation/shearing continues with intermittent ank banding- general foliation/shearing @ 45° to c.A.										
		- host MV is darker, more chloritic green and becomes magnetic- chlorite clots and magnetite grains aligned along foliation- up to 1% disspy										
		296.10- 296.80- 50 to 60% qtz + ank veining @ 45° to C.A irregular boudinaged/crenulated with blebs and small masses of py	927	296.10	296.80	0.70	0.04					
300.60	301.75	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- pinkish/tan variety- strongly foliated/sheared @ 45° to C.A some irregular, discontinuosqtz + ank veining with tourmaline- unit somewhat glassy appearance- contacts sharp @ 45°									•	
301.75	310.04	MAFIC VOLCANIC - as before- chloritic/magnetic clot variety- elongated along foliation/shearing 40 to 45° to c.A intermittent, crenulated ank/qtz banding continues- lower contact sharp @ 40° to C.A lined with py							×			

PROPERTY:	COMPANY:	HOLE No. FM-17-2	SHEET No. 8

FOO	TAGE	DESCRIPTION	SAMPLE				ASS	AYS				
FROM	то	DESCRIPTION	NUMBER	FROM	FOOTAGE	TOTAL	a/t	CHECK	Av	Oz/t	CHECK	Av
310.04	314.17	 FELSIC INTRUSIVE (QTZ PORPHYRY) <u>SHEAR ZONE Continues</u> light grey/tan variety- aphanitic to v. f. grained indistinguishable grains groundmass with coarser, prolific qtz eyes- strong foliation @ 45° to C.A few x-cutting qtz + ank veinlets 312.07- 313.50- intercallations of MV lower contact sharp @ 45° to C.A. 					6''			<u>o</u>		
314.17	322.68	 MAFIC VOLCANIC <u>SHEAR ZONE Continues to approx. 317.00m</u> - as before- abundant crenulated/boudinagedank + qtz banding initially to 317.00m - after shear zone, unit is more moderately to strongly foliated- ank + qtz crenulated banding diminishes- unit is strongly magnetic- chlorite and magnetite becomes more granular and less elongated- lower contact sharp @ 45° to C.A. 		4 					ал 11 		e 	
322.68	324.80	FELSIC INTRUSIVE (FELSITE) - light grey to slightly tan/grey, aphanitic- strongly foliated/banded @ 45° to c.A darker and lighter bands- trpy- hard, blocky fractures- lower contact sharp @ 40° to C.A.				-						
324.80	348.72	MAFIC VOLCANIC - dark chloritic green, generally medium grained, moderately well foliated @ 40 to 45° to C.A strongly magnetic with granular magnetite visible- occasional masses of py, but generally fine, diss in tr amounts- 2 to 3% ca carb stringers + erratic infilling- - lower contact sharp @ 30° to C.A.	-									
348.72	349.08	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- light grey/tan, aphanitic with prolific qtz eyes- weak foliation 45° to C.A. - lower contact sharp @ 35° to C.A.										
349.08	353.75	MAFIC VOLCANIC - as before- coarser chloritic clot, strongly magnetic variety- frequent ca carb stringers @ 30°										
		-352.75- 353.32- abundant siliceous banding, ca carb + minor qtz/carb veining, all @ 35 to 45° to C.A. - lower contact sharp @ 35°	928	352.70	535.30	0.60	0.001					

PROPERTY: COMPANY: HOLE No.	FM-17-2 SHEET No. 9
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FOO	TAGE	DESCRIPTION		SAM	PLE		ASSAYS						
FROM	то	DESCRIPTION	NUMBER		FOOTAGE		1		-				
353.75	354.75	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- - lower contact sharp @ 15 to 20° to C.A.		FROM	10	IOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.	
354.75	361.33	MAFIC VOLCANIC - as before- chloritic clot variety aligned along weak to moderate foliation @ 35 to 40° to C.A lack of masgnetism- weak pervasive ca carbonitization and frequent ca carb stringers and fracture fill - lower contact sharp @ 70° to C.A.											
361.33	365.90	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- light grey/tan- aphanitic with prolific qtz eyes to 3mm- weak foliation 40° to C.A rare ca carb fracture fill - lower contact sharp @ 50° to C.A.											
365.90	450.00 EOH	MAFIC VOLCANIC - initially fine/medium grained but becoming coarser to medium grained down-hole- initial weak foliation but becomes massive, homogeneous, increasingly magnetic and epidotitic down-hole- few ca carb fracture fillings initially but becoming rare and replaced by occasional epidote lined fractures- tr to \triangleleft 1% dis spy											
		- unit remains quite homogeneous/ massive/ slightly epidotitic and strongly magnetic to EOH- few occasional areas of feldspathic spotting											
		- after 405.00m- frequent ca carb stringers @ low angles to C.A.											

PROPERTY: Jacobson-R	iggs	-	COMPANY: FM	EL	FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH	HOLE No. FM-17-3	Sheet No. 1
HOLE No.FM-17-3 LENGTH 550.0			m	Extension							Samples: 0929-0965	2
LOCATION APPROX. Claim	1174694	Jacobson Twp.	SURVEYED								Diamond Drill Contractor: Forage	e multi Drilling
LATITUDE: 5355717N (N	NAD 83,	Zone 16)	DEPARTURE: 06	98949E								eunvine, On.
ELEVATION: 410m	AZIMUTI	н: 165°	Dip: -47°				*		-		Dura Edu	
START April 3, 2017 FINISHApril 1			2107	Collar Survey:							LOGGED BY: Bruce Edg	ar (HBSc, P. Geo.)

FOO	TAGE	DESCRIPTION	SAMPLE		ASSAYS							
FROM	то	DESCRIPTION	NUMBER	UMBER FOOTAGE								
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
0.00	3.00	CASING/ OVERBURDEN										
3.00	71.92	MAFIC VOLCANIC - fine grained, dark chloritic green, possibly slightly epidotitic, massive to weakly foliated 60° to C.A., quite strongly magnetic- local weak ca- carbonitization- occasional spotted appearance of feldspathic phenocrysts in areas (flow tops?)- infrequent ca –carb stringers and fracture-f ill - after 16.00m- more frequent ca- carb stringers, commonly along weak foliation @ 60° to C.A. and also random fracture fill - after 27.00m- decreasing magnetism, more medium grained "chloritic clot" appearance and weak										
71.92	74.33	 - 39.00- 42.50- unit slightly epidotitic- "spotted" appearance of medium grained feldspathic pheno's- lack of magnetism and lack of pervasive carbonitization- unit quite homogeneous, with weak foliation development towards lower contact, sharp 65° to C.A. FELSIC INTRUSIVE light, slightly tan-grey, aphanitic to indistinguishable grain size with prolific fine qtz eyes and occasional bluish qtz eyes to 1-2mm- hard, blocky fractures- moderate foliation @ 45° to C.Asome fine chloritic fracture lining, trpy- some MV intercallations lopwer contact sharp @ 65° to C.A. 										

			STABLET TOT E
PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 2

FOO	TAGE	DESCRIPTION	SAMPLE		SAMPLE			ASSAYS					
FROM	то	DESCRIPTION	SAMI		FOOTAGE								
			NUMBER	FROM	ТО	TOTAL	g/t	CHECK	Av.	Oz/t	СНЕСК	Av.	
74.33	104.88	 MAFIC VOLCANIC - as before- chloritic clot and feldspathic "spotting" variety- slightly epidotitic- rare siliceous fracture lining @ 30° to C.A lack of magnetism and lack of ca- carb- tr fine dis spy -91.00- 91.50- 30% ca carb banding @ 80 to 90° to C.A. - 91.53- 91.65- MAFIC INTRUSIVE (DIABASE) Dikelet - sharp, irregular, chilled, cherty contacts- dark grey/black- aphanitic to v. f. grained- strongly magnetic 											
		 - 100.60- 4cm glassy qtz veinlet with epidote and hematite @ 80° to C.A. - lower contact sharp, somewhat irregular, about 45° to C.A. 								-			
104.88	105.79	MAFIC INTRUSIVE (DIABASE) - chilled, dark, aphanitic contacts- more fine to medium grained towards center of dike- homogeneous, strongly magnetic- blocky fractures			je.				u y				
		- lower contact sharp @ 55° to C.A.											
105.79	137.98	MAFIC VOLCANIC - dark chl green- fine/med grained- porphyritic "spotted" appearance of feldspathic laths- initially magnetic but rapidly dissipating down-hole,- also lack of ca- carbonitization- rare ca- carb fracture fill- generally massive to weakly foliated 45° to C.A.		т. Т	9 								
		- 120.00- 121.50- 5% ca carb banding/ weak foliation generally 70° to C.A.											
		- unit remains quite homogeneous- massive- "spotted" appearance				κ.							
		- lower contact sharp @ 55° to C.A.											

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 3
9. State 1997			

FOOT	TAGE	DESCRIPTION		SAMPLE		ASSAYS						
FROM	то	DESCRIPTION	NUMBER	×	FOOTAGE							
TROM			NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
137.98	142.00	FELSIC INTRUSIVE (FELSITE) - v. f. to fine grained, greenish-medium grey- weak foliation @ 60° C.A trpy- some minor po fracture lining- hard, siliceous- few coarser white pheno's make unit appear slightly porphyritic- lower contact sharp @ 70° to C.A.										
142.00	307.20	MAFIC VOLCANIC - as before at 105.79- "spotted" variety- waek foliation development increasing in intensity down- hole - 146.70- 147.00- ground core - unit has increasing magnetism and ca- carbonitization										
		 -147.00- 177.00- increased foliation/weak SHEAR ZONE -unit is f. grained, dark chloritic green- strong foliation/shearing @ 75° to C.A. initially and switching to 65° generally- about 2-3% fine ca- carb banding - after 153.00m- some irregular siliceous/ca-carb veining/bands boudinaged/folded?- few x-cutting- magnetism dissipating- unit has 1-2% dis spy, possible minor po (localized magnetism) - 162.64- 162.74- white to grey banded qtz veining @ 70° to C.A with up to 5% bands and agglomerations of po, lesser py - 162.74- 163.46- FELSIC INTRUSIVE (QTZ PORPHYRY) DIKE - medium, slightly beige-grey- aphanitic with prolific coarser qtz eyes- weak foliation 70° to C.A tr to ₹ 1% disspy, somewhat along foliation – sharp contacts 70° to C.A. - after 163.46- MV as before- strong foliation/shearing dissipating down-hole and ending around 177.00m- appearance of stretched/ boudinaged ca- carb filled amygdules towards end of shearing 	930 931	162.50 162.80	162.80 163.50	0.30 0.70	0.01 ≰0.01					
		- after 177.00m- unit is medium/dark chloritic green- slightly epidotized- weakly magnetic- generally massive- trpy										
		- 186.00- 188.00- moderately foliated 65° to C.A.										
	2	- after 188.00m- unit quite massive- generally fine grained- slightly epidotitic green- quite strongly magnetic										

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FOOT	TAGE	DESCRIPTION		SAN	IPLE				ASS	AYS		
FROM	то	DESCRIPTION	SAMPLE NUMBER FROM TO TAL							7		
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		-after 203.00m- intermittent qtz and calcite filled amygdules and slight pervasive ca- carbonitization- quite strongly magnetic- fine dis spy (+po?) to \Box 1%					* .					
		-213.00- 224.00- moderate to strong foliation 60° to C.A dark chloritic green and some epidotitic coloration- moderately magnetic- up to 1% dis spy- darker bands aligned along foliation appear to be pillow selvages- some irregular qtz/ calcite bands and veinlets, some x- cutting							- - -			
		- after 224.00m- more massive appearance and lack of qtz/calcite bands- more epidotitic coloration						2	is.			
	-	-232.00- 241.00- weak to moderate foliation @ 65° to C.A locally magnetic- tr dis spy								- A		
	X	- after 241.00m- unit displays epidotitic patches and bands	-					 -				
		 - 246.70m- 12 cm siliceous/epidote banding with minor py/po - 247.70m- 25 cm as above with ca- carb banding with minor bands of py/po 					с					
		- after 248.00m- intermittently moderately to more strongly foliated @ 65°to C.A generally medium to dark chloritic green and slightly epidotitic- remains fine grained- intermittently to locally magnetic- trdisspy- frequent siliceous/ ca- carb veinlets/banding along foliation-occasionally with py/po agglomerations							-			
		- after 273.00m- unit darker chloritic green- moderate to stronger foliation				5					*	
		- 277.90- 278.10- slightly greenish white to grey qtz veining with lesser ca carb- 1-2% py/po and coarsely pyritic MV fragments	932	277.80	278.20	0.40	0.01					
		- 280.20- 280.74- 60% whitretyo grey qtz and ca carb veining @ 65° to 80° toC.A. with 40% bleached/silicified host rock (or fractured Felsic Intrusive?)- blebs, agglomerations and pseudo bands of po, lesser py and minor cpy	933	280.20	280.80	0.60	0.02					
		- after 281.00m- unit dark chloritic green and slightly epidotized- f. grained- moderately to locally strongly magnetic- massive to very weakly foliated- tr to K 1% dis spy, some corase agglomerations										

PROPERTIE	OPERTY:
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COMPANY:

HOLE No. FM-17-3 SHEET No. 5

FOOT	AGE	DESCRIPTION	SAMPLE		SAMPLE				ASSAYS					
	-	DESCRIPTION	NUMBER	FOOTAGE			1.1		÷.					
FROM	то		NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.		
307.20 313.66	313.66 357.70	to 3mm - after 292.00m- unit becomes darker chloritic green- loses epidotitic content- magnetism dissipates rapidly- unit becomes increasingly foliated @ 60 to 65° to C.A. with frequent ca- carb stringers/ fracture fill @ 45°- appearance of cubic py to 3mm - a. 296.70m- SHEAR ZONE Commences - host MV strongly foliated/sheared @ 65° initially, switching to 45 to 50° down-hole- retains chloritic content but becomes banded with 10 to 15% ca- carb + ankerite, boudinaged and crenulated- 2 to 3% qtz + Ankerite veining, some x- cutting, tr to ≤11% dis spy - after 305.00m- host MV lighter coloured- 50% lighter ankerite banding/siliceous- minor qtz + ankerite veinlets FELSIC INTRUSIVE (QTZ PORPHYRY) - initially flesh colored light grey- aphanitic to v. f. grained- prolific qtz eyes to 2mm- weak to moderate 60° foliation- thin, dark (tourmaline?) lined fractures- becoming light beige-grey towards lower contact- tr dis spy- lower contact sharp @ 60° to C.A. MAFIC VOLCANIC <u>SHEAR ZONE Continues</u> to a. 314.40m - as before after 296.70m- shaering weakens and dissipates after 314.40m - after 314.40m- ankerite content dissipates- frequent fine ca- carb fracture lining and stringers along foliation - 317.30- 317.50- FELSIC INTRUSIVE (FELSITE) DIKE - f. gr- light- medium grey- weak foliation @ 65° to C.A trpy- sharp contacts 70° to C.A. - after 317.90- host MV is f. gr- dark chloritic green with abundant, irregular ca- carb fracture fill and banding - after 322.00m- medium to dark chloritic green with slight epidotiticcolouration- fine/med grained- generally massive, homogeneous- local weak foliation @ 45°- strongly magnetic	934 935 936 937 938 939 940 941 942 943 944	296.60 300.00 301.00 302.00 303.00 304.00 Stand 305.00 306.00 307.00 313.50	300.00 301.00 302.00 303.00 304.00 305.00 Au G1 306.00 307.00 307.50 314.00	0.40 1.00 1.00 1.00 1.00 1.00 0.50	 ♥0.01 0.38 0.02 0.06 0.01 0.02 1.06 0.01 0.02 0.03 ♥0.01 							

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 6

FOO	TAGE	DESCRIPTION	SAMPLE			ASSAYS						
FROM	то	DESCRIPTION	NUMBER FOOTAGE				2					
ТКОМ				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		- tr to $\frac{1}{2}$ % dis spy- occaisional epidote + siliceous fracture lining @ 45° and 20° to C.A.		- 16	-	x	8	0.421 g			- -	
		- after 335.00m- weak pervasive ca- carbonitization- decrease in magnetism and increase in fine ca- carb stringers @ 60 $^{\circ}$ to C.A some calcite filled blebs (amygdules?)		9 a 1 4- 4								
		- 341.82- 342.50- pseudo Iron Formation- 30° siliceous and sugary qtz banding with 2- 3% py and fine bands of magnetite @ 70 to 80° to C.A.	945	341.80	342.50	0.70	0.07					
		- after 344.00m- weak pervasive ca- carb disappears- strong magnetism returns and unit as at 332.00m- massive to weakly foliated @ 60°		÷								
		- after 354.00m- weak to moderate foliation development $@$ 60°, decreasing magnetism and increasing pervasive ca- carbonitization- to 1% dis spy and frequent ca- carb stringers along foliation		,								
6. ⁸⁷		- 357.52- 357.70- MAFIC INTRUSIVE (DIABASE) DIKE - as before- sharp 60° contacts										
357.70	359.06	FELSIC INTRUSIVE (QTZ PORPHYRY) - light green-grey- aphanitic with prolific fine qtz eyes- weak to moderate foliation @ 60° to C.A tr to \swarrow 1% disspy- lower contact sharp @ 60°										
359.06	368.75	MAFIC VOLCANIC - as before- weak pervasive ca- carbonitization- lack of magnetism- moderate foliation 60° to C.A minor ca- carb and ankerite banding										
		- 360.90- 4 cm white to grey qtz veinlet @ 70°- fine py and po margins and bleached host rock	946	360.80	361.20	0.30	≰0.01				*	
		- 361.70- 368.75- IRON FORMATION - altered/bleached/ siliceous host MV- banded 5% sugary qtz and locally to 20% banded py, lesser po and black magnetite bands intermittently throughout section- banding varies form 75°	947 948	361.70 362.50	362.50 363.30	0.80 0.80	0.16 0.07					
		initially to 45° by lower contact	949	364.80	365.80	1.00	0.01					

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 7

FOOT	TAGE	DESCRIPTION	SAMPLE			ASSAYS						
FROM	то	DESCRIPTION	NUMBER		FOOTAGE			- 8		,		2
FROM	10		NUMBER	FROM	ТО	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
		- lower contact sharp @ 65° to C.A.	950 951	366.30 367.30	367.30 368.00	1.00 0.70	0.11 0.26					
368.75	370.46	FELSIC INTRUSIVE (QTZ PORPHYRY) - light, slightly green-grey- aphanitic with prolific fine qtz eyes- well foliated with dual foliation @ 45 and 60° to C.A blocky fractues with mafic and ankeritic infill- lower contact sharp @ 65° to C.A.	952	368.00	368.90	0.90	0.03					
370.46	370.88	MAFIC VOLCANIC - as before @ 359.06m- lower contact sharp @ 75° to C.A.							£			
370.88	373.65	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before @ 368.75m- few minor intercallations of MV with contacts @ 65° to C.A.										
		- 372.00- 372.90- bleached MV and FI with siliceous banding, ending in a 16cm qtz veining with 6 cm banding of 50% py on lower contact, sharp $@$ 60° to c.A.	953	372.30	372.90	0.60	0.19					
373.65	383.36	MAFIC VOLCANIC - dark chloritic green- fine grained- foliated @ 60° to C.A with frequent to prolific ca carb and ankerite stringers and banding along foliation- weak to moderate ca- c arbonitization and lack of magnetism- some irregular blebby bands of ca- carb and ankerite										
		- 379.26- 379.60- 60% white qtz + minor ank veining with host rock fragments and evidence of $\frac{1}{2}$ cm microfaulting							·			
		- after 382.00m- increasing magnetism										
	×	- lower contact irregular, about 30° to C.A.				~ .						
383.365	384.49	MAFIC INTRUSIVE (DIABASE) - as before- cherty, dark black chilled margins- fine grained centrally- strongly magnetic and blocky broken core	х 11		-							
		- lower contact sharp (a) 60° to c.A.			×							

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 8

FOO	TAGE	DESCRIPTION	SAMPLE				ASS	AYS	-			
FROM	то	DESCRIPTION	NUMBER	1	FOOTAGE							
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
384.49	390.74	MAFIC VOLCANIC - as before- initially strongly magnetic, decreasing away from upper contact										
8.		- 387.00- 387.19- MAFIC INTRUSIVE (DIABASE) Dikelet - as before- sharp 60° conatcts					×.	5				
		 - 387.19- 388.40- Pseudo IRON FORMATION - intermittent bleached MV with siliceous and minor ank bands, 20% white sugary qtz and minor ank with darker chloritic sections- last 60 cm features 10% banded magnetite grains, py and minor po @ 70° to C.A. 	954	387.80	388.40	0.60	0.03					
		- lower contact sharp @ 70°to C.A.		-						ŝ		2
390.74	391.44	FELSIC INTRUSIVE (QTZ PORPHYRY) - as before- slightly green-grey- aphanitic to v. f. groundmass with fine, prolific qtz eyes- weak foliation 70° to C.A. – lower contact sharp @ 70°	-							ĸ		
391.44	399.08	MAFIC VOLCANIC - as before- moderate pervasive ca- carbonitization- fine graoned- dark chloritic green- foliated 70°- occasional to more frequent ca- carb stringers and fracture fill- becoming increasingly magnetic towards lower contact, sharpo @ 50° to C.A.										
399.08	400.54	MAFIC INTRUSIVE (DIABASE) - as before- sharp lower contact @ 45°	-									
400.54	403.31	MAFIC VOLCANIC - as before- moderately foliated @ 65° to C.A quite strongly magnetic- trpy			-							
		- lower contact sharp @ 65°										
403.31	404.29	FELSIC/INTERMEDIATE INTRUSIVE - greenish medium/dark grey- medium grained- qtz = feldspar+ mafics- moderate pervasive ca-										

THOT DOT DOT DOT DOT DOT DOT DOT DOT DOT D	commun	HOLE NO. THE I'V	SHEET NO. >
PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 9

FOO	TAGE	DESCRIPTION		SAMPLE					ASS	AYS		
FROM	то	DESCRIPTION	NUMBER		FOOTAGE							
				FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	СНЕСК	Av.
		- carbonitization- appears massive with ca- carb bands @ 80 to 90° to C.A some x- cutting stringers- lower contact sharp @ 70° to C.A.										
404.29	452.56	MAFIC VOLCANIC - as before- dark chloritic green- fine grained- initial weak foliation 55° to C.A strongly magnetic (fine magnetite grains visible)- weak pervasive ca- carbonitization- initially, dissipating down- hole										
		- after 408.00m- unit is medium to coarser grained- somewhat gabbroic in appearance- noderatelyepidotized throughout- generally massive to v. weakly foliated – occasional ca- carb filled and epidote lined fracture fill/ stringers- tr to 1% disspy and some cubes to 2mm				÷						
		- after 427.00m- weak foliation development @ 55° to C.A to Z1% cubic py				-						
		 - 429.80- 430.40- FELSIC INTRUSIVE (FELSITE) v. f. grained- dark grey- weak to moderate foliation @ 55°- hard, siliceous, blocky fracturing- sharp contacts @ 55° to C.A. 										
		- 430.55- 430.85- 20% siliceous/ ca- carb banding with 1- 2% py @ 55° to C.A.	955	430.50	430.90	0.40	0.02			×		
		- after 430.85m- MV continues as before- weak foliation @ 55°, increases in intensity down-hole- unit remains strongly magnetic										
	~	- after 446.00m- moderately to more strongly foliated @ 45°- fine magnetite grains visible- some development of ankerite stringers and bands										
		 - 451.43- 451.68- FELSIC INTRUSIVE (QTZ PORPHYRY) - flesh/pink colored as before- sharp contacts, 45° upper, 70° lower x- foliation 										
		- lower contact sharp @ 45° to C.A.										

PROPERTY:	COMPANY:	HOLE No. FM-17-3
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FOO	TAGE	DESCRIPTION	SAMPLE				ASSA	SSAYS				
FROM	то	DESCRIPTION	NUMPED	FOOTAGE								
			NUMBER	FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
452.56	453.08	MAFIC INTRUSIVE (DIABASE) Dike - medium grained- dark grey/black- strongly magnetic- massive- blocky fractures- sharp contacts 45° to C.A.										
453.08	454.35	MAFIC VOLCANIC -as before but highly silicified, blotchy appearance- remains strongly magnetic- lower contact sharp @ 10° to c.A.										
454.35	455.65	FELSIC INTRUSIVE (QTZ PORPHYRY) - aphanitic with prolific qtz eyes- flesh colored- weak foliation 45°- fractured appearance- trpy- lower contact sharp @ 60° to C.A.										
455.65	459.29	MAFIC VOLCANIC - as before at 453.08m- silicified, hard- somewhat "spotted" appearance- few, irregular flesh/pink colored FELSIC INTRSIVE dikelets towards lower contact- MV is silicified and bleached with up to 1 to 2% py and fracture lined py agglomerations and cubes - lower contact sharp, irregular, about 30° to C.A.										
459.29	472.75	FELSIC INTRUSIVE (QTZ PORPHYRY) - flesh pink to red color (granitoid coloration)- aphanitic with qtz eyes to 3mm- weak foliation/ common fracture direction @ 45° to C.A blocky black (tourmaline?) + chlorite lined fractures With py cubes- tr to 1% dis spy throughout- occasional white xllnqtz x-cutting veinlets			ind M							
		- 461.00- 461.53- intercallations of highly silicified MV- chloritic clots along 45° foliation- bleached with up to 2-3% py	956	461.00	461.60	0.60	∠ 0.01					
		- 465.46- 466.00- 80% white, xllnqtz veining with FI fragments carrying py, x- cutting weak foliation	957	465.40	466.00	0.60	⊠0.01					
		- lopwer contact sharp @ 45° to C.A.										

SHEET No. 10

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 11

FOOT	ГАGE	DESCRIPTION	SA		1PLE			ASSAYS					
FROM	то	DESCRIPTION	NUMBED		FOOTAGE					-		-	
FROM	10		NUMBER	FROM	ТО	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.	
472.75	482.64	MAFIC VOLCANIC - as before- initially highly silicified/ bleached- medium grained with chloritic clots along foliation @ 45°- to 【1% diss cubic py- moderate foliation- strongly magnetic- somewhat "spotted" appearance of lighter colored feldspar pheno's- increasing ankerite content	1. 										
		- 480.10- 480.50- FELSIC INTRUSIVE Dike - as before at 459.29m- sharp conatcts 55° to C.A.		-		a.					a		
		- lower contact sharp @ 15° to C.A.					8	1.					
482.64	483.65	MAFIC INTRUSIVE (DIABASE) Dike - vf to f. grained- dark grey/black- massive- strongly magnetic- darl chilled margins- blocky fractures- lower contact sharp @ 20° to C.A.											
483.65	496.72	MAFIC VOLCANIC - as before- increasing ankerite content- appearance of qtz + ank veinlets- strong foliation 45° to C.A unit maintains strong magnetism											
		a. 491.50m- <u>SHEAR ZONE</u> Commences - rapid decrease in magnetism- strong foliation/shearing @ 55 to 60° to C.A about 15% crenulated/ boudinagedankerite + qtz banding/ veining- host MV is sheared/ altered dark and light banding- intermittent diss and agglomerations and lineations of py				-							
×.		 - 492.97- 493.15- FELSIC INTRUSIVE (QTZ PORPHYRY) Dike - flesh/pink as before- abundant tournaline? lined fractures and x- cutting qtz/ ankerite veinlets- sharp contacts 45° to C.A. 	958	492.90	493.20	0.30	0.06						
		 - 493.58- 494.06- FELSIC INTRUSIVE (QTZ PORPHYRY) Dike - slightly tan/ medium grey- fine, somewhat indistinguishable qtz eyes- ankeritic alteration-fine black (tourmaline?) fracture lining- sharp contacts 55° to C.A. 	959	494.30	494.80	0.50	0.07						
		- lower contact sharp @ 55°	960	Stand		•	2.27						

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PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 12

FOOT	TAGE	DESCRIPTION		SAM	IPLE				ASS	AYS		
FROM	то	DESCRIPTION	NUMBER	FROM	FOOTAGE	TOTAL	g/t	CHECK	Av.	Oz/t	CHECK	Av.
496.72	498.26	FELSIC INTRUSIVE (QTZ PORPHYRY) - initially somewhat glassy- medium grey- prolific fine qtz eyes- blocky fracturing with dark lining- tr to ℤ1% fine dis spy- ankeritic fracture lining- lower contact sharp @ 55°	-			101112						
498.26	506.77	MAFIC VOLCANIC <u>SHEAR ZONE Continues</u> - mostintense ankeritic banding amounting to 40% of unit- shearing @ 50 to 60° to C.A.										
ж г		 - 499.84- 500.20- FELSIC INTRUSIVE (QTZ PORPHYRY) - flesh/pink variety with qtz eyes and well fractured appearance- tr to □1% disspy- minor qtz + ankerite veinlets- sharp contacts 50° upper, 60° lower 	961	499.80	500.40	0.60	0.08	10				
		- 504.55- 505.00- 10% qtz + ca- carb stringers and to 5% py @ 55° to C.A.	962	504.50	505.00	0.50	0.10					
	а 1	- lower contact sharp @ 45°	ių.	м Э					-	ж (т		
506.77	508.45	FELSIC INTRUSIVE (QTZ PORPHYRY) - slightly tan- medium grey- frequent fine to medium qtz eyes- some MV fragments- dark lined fractures- trpy					*					
2		- 507.17- 507.37- white xllnqtz vein @ 65° upper, 45° lower contact- tr cubic py	963	507.00	507.40	0.40	0.03					τ
	-	- lower contact sharp 50°, 4 cm qtz + ank veinlet on lower contact			(4) (
508.45	550.00 EOH	MAFIC VOLCANIC <u>SHEAR ZONE Continues</u> - shearing is weaker, only 2 to 3% crenulated/boudinaged ca- carb + minor qtz + ank veining/bands- host MV more chloritic green- less altered- foliation/ weak shearing @ 45°									×	
		- 514.50- 517.50- foliation/shearing intensifies with 40 $\%$ qtz + ank veining/bands and 2 to 3 $\%$ py locally	964	516.00	517.00	1.00	0.01					
		- 517.50 <u>SHEAR ZONE ENDS</u>										
			-									

PROPERTY:	COMPANY:	HOLE No. FM-17-3	SHEET No. 13
			,

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	то			NUMBER FOOTA		DTAGE						
		 - after 517.00m- MV less altered, foliation weakens- generally fine to medium grained and chloritic green/grey- occasional irregular qtz + ank stringers and veinlets - 526.90- 527.28- siliceous banding with minor qtz = ca carb stringers and cherty altered host MV and dark banding 45 to 55° to C.A. 		FROM	то	TOTAL	g/t	CHECK	Av.	Oz/t	СНЕСК	Av.
				526.90	527.30	0.40	0.02	18- 1				
		- 527.28- 527.55- FELSIC INTRSIVE (FELSITE) -as before- sharp contacts 45°										
		- after 527.55- host MV becomes massive- dark chloriticgree- slightly epidotitic- prolific magnetite spotting and strongly magnetic- generally medium grained- trpy- occasional ca- carb fracture fill at various angles										
		EOH			4 4							
						*						
		· · · ·										

Appendix 2

Short forms used in Diamond Drill Logs

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First Minerals Exploration Ltd.

Short forms used on Diamond Drill Logs

a.	about
aph	aphanitic
ank	ankerite
са	calcium
C.A.	core axis
carb	carbonate
chl	chlorite
cm	centimetres
сру	chalcopyrite
dk	dark
diss	disseminated
f. gr	fine grained
FI	felsic intrusive
fol'n	foliation
m	metres
mm	millimetres
med	medium
MV	mafic volcanic
pheno's	phenocrysts
ро	pyrrhotite
ру	pyrite
qtz	quartz
tr	trace
v.f.gr	very fine grained
x- cutting	cross cutting
xlln	crystalline



Appendix 3

Assay Certificates





Attn:

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 2

Assay Certificate

Certificate Number: 17-832

Company: First Minerals Exploration Ltd. Project: Jacobson-Riggs

Bruce Edgar

Report Date:

09-May-17

We hereby certify the following Assay of 33 core samples submitted 26-Apr-17 by Bruce Edgar

	Au	Au Chk	AuBal
Sample	FA-MP	FA-MP	FA-GRAV
Number	g/Mt	g/Mt	g/Mt
896	0.03		
897	0.01		
898	0.001		
899	0.001		
900	0.001		
901	0.001		
902	0.01		
903	0.001		
904	1.09		
905	0.03	0.07	
Blank Value	0.001		
SG66	1.06		
906	0.01		
907	0.001		
908	0.001		
909	0.01		
910	0.10		
911	0.06		
912	0.49		
913	1.10		
914	1.71		
915	5.08	5.07	5.34
916	0.23		
917	0.24		
918	0.04		



Certified by Valid Abu Ammar

1 Cameron Ave., P.O. Box 10, Swastika, Ontario POK 1T0 Telephone (705) 642-3244 Fax (705) 642-3300



Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

Certificate Number: 17-832

- Company: First Minerals Exploration Ltd.
- Project: Jacobson-Riggs

Attn: Bruce Edgar

Report Date:

09-May-17

We hereby certify the following Assay of 33 core samples submitted 26-Apr-17 by Bruce Edgar

Sample Number	Au FA-MP g/Mt	Au Chk FA-MP g/Mt	AuBal FA-GRAV g/Mt
919	0.20		
920	0.11		
921	0.07		
922	0.21		
923	0.07		
Blank Value	0.001		
SG66	1.07		
924	16.73		
925	0.04	0.03	
926	0.01		
927	0.04		
928	0.001		

Certified by -Valid Abu Ammar

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Page 1 of 2

Assay Certificate

Certificate Number: 17-906

Company:	First Minerals Exploration Ltd.
Project:	Jacobson-Riggs
Attn:	Bruce Edgar

Report Date:

12-May-17

We hereby certify the following Assay of 36 core samples submitted 09-May-17 by Bruce Edgar

Sample Number	Au FA-AAS g/Mt	Au Chk FA-AAS g/Mt
930 931 932 933 934	0.01 < 0.01 < 0.01 0.02 < 0.01	
935 936 937 938 939	0.38 0.02 0.05 0.01 0.02	< 0.01
Blank Value SG66 940 941 942	< 0.01 1.08 1.06 0.01 0.02	
943 944 945 946 947	0.03 < 0.01 0.07 < 0.01 0.16	
948 949 950 951 952	0.07 0.01 0.11 0.26 0.03	< 0.01

Certified by

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Page 2 of 2

Assay Certificate

Certificate Number: 17-906

Company: First Minerals Exploration Ltd. Project: Jacobson-Riggs

Bruce Edgar

Report Date: 12-May-17

We hereby certify the following Assay of 36 core samples submitted 09-May-17 by Bruce Edgar

Marca and S	Au	Au Chk
Sample	FA-AAS	FA-AAS
Number	g/Mt	g/Mt
953	0.19	
954	0.03	
955	0.02	
956	< 0.01	
957	< 0.01	
Blank Value	< 0.01	
SG66	1.08	
958	0.06	
959	0.07	0.03
960	2.27	
961	0.08	
962	0.10	
963	0.03	
964	0.01	
965	0.02	

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Page 1 of 1

Assay Certificate

Certificate Number: 17-549

Company:	First Minerals Exploration Ltd.		
Project:	Jacobson-Riggs	Report Date:	24-Mar-17
Attn:	Bruce Edgar		

We hereby certify the following Assay of 11 core samples submitted 17-Mar-17 by Bruce Edgar

Au FA-AAS g/Mt	Au Chk FA-AAS g/Mt		r. F				
0.01	anan an an an ann		and a second a second a second	-	к <u>так</u> т 1.32		
0.03							
0.05							
0.02							
0.61							
3.24							
0.07							
0.04							
0.72							
0.07	0.08						
0.02			an tanan ana arte ang tao a				
1.27							
2.95							
	Au FA-AAS g/Mt 0.01 0.03 0.05 0.02 0.61 3.24 0.07 0.04 0.72 0.07 0.02 1.27 2.95	Au Au Chk FA-AAS FA-AAS g/Mt g/Mt 0.01 0.03 0.05 0.02 0.61 3.24 0.07 0.04 0.72 0.07 0.08 0.02 1.27 2.95	Au Au Chk FA-AAS FA-AAS g/Mt g/Mt 0.01 0.03 0.05 0.02 0.61 3.24 0.07 0.04 0.72 0.07 0.08 0.02 1.27 2.95	Au Au Chk FA-AAS FA-AAS g/Mt g/Mt 0.01 0.03 0.05 0.02 0.61 3.24 0.07 0.04 0.72 0.07 0.08 0.02 1.27 2.95			

Certified by

Valid Abu Ammar

Valid Aba Alimia

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