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## PENSE PROPERTY PROSPECTING REPORT 2017

## Pense Township, Larder Lake Mining Division, Ontario CANADA

A prospecting and site-evaluation and confirmation of historical Cu-Co showing performed on November 4, 2017

By: M. Gaudreau 2019-09-07

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## **PENSE PROPERTY** Pense Township, Larder Lake Mining Division, Ontario, CANADA 2017 Prospecting Report

## PROPERTY: SUMMARY

On November 4, 2017 M. Gaudreau and Phil Align (prospecting site visit field party) visited the Pense Property (Property) to examine specifically an area with a pit with documented copper and cobalt (erythrite) mineralization and within a 300 meter radius of the pit was also prospected. Five (5) samples were taken in total. Sample Pense-01-2017 was float and taken as a reference sample of a pyrite rich conglomerate. Another float sample of dark slate with pyrite mineralization was also taken as a reference sample as the surface appeared to be "cobalt bloom". A new zone of chalcopyrite mineralization in the form of narrow veins was discovered in diorite rock approximately 50m southwest of the Pit. Unfortunately, this area returned uneconomic results; Pense-03-2017-A, Pense-03-2017-B and Pense-03-2017-C returned 8.7 ppb Au, 0.22 ppb Pd and .83 ppb Pt, 16 ppm Co, 1208 ppm Cu and 45 ppm Ni. A check on the silver value using AAF-2300 returned much lower values, up to 4 ppm and gold using IMP-101 5.3 ppb Au. A sample taken from the dump of the 3m x 3m Pit returned 1.4 oz/T Ag.

The Property is situated in the south-central, north and abutting the Province of Quebec on the west part of Pense Township. The Property originally consisted of thirteen (13) contiguous, unpatented Legacy mining claims totaling 134 units in size and as of 2019, converted to 150 mining cell claims totaling 2,183.44 hectors (5,395.40 acres). The Property host three (3) mineral occurrences and one (1) prospect which has been partial drilled, resulting in an inferred low grade resource. Historical drilling has also confirmed this resource to be open at depth below 200 meters with a >200 meter strike length, and various widths. Ground geophysical surveys have resulted in numerous drill tested and untested anomalies on the Property.

Some historical diamond drill sections in low-grade resource area:

- 1997 drilling hole DDH 97-03, 0.893% Cu, 1.30% Zn, 4.12 grams per ton Ag, 1.693 grams per ton Au over 9.02 meters.
- 1997 drilling 0.5 gram per ton gold associated with zinc and copper over ~13m.
- In the same mineralized section of drilling above, 11.46 grams per ton gold over 0.24m.

The Ontario Geologic Survey (OGS) report OGS MP069 depicts the underlying rocks to include Neoarchean Clastic Metasedimentary, Neoarchean Metavolcanic, Nipissing diabase and felsic intrusive(s) rocks suite.

The Property is also within a district of known kimberlites and situated north of the recently discovered diamondiferous kimberlite by Brixton Metals Langis Project. The company was actively exploring for cobalt-nickel-silver in mineralized shallow Archean rocks when they encountered the kimberlite. Since the kimberlite remained blind from the OGS survey that should have detected a Keating Anomaly the Property has potential to host mafic intrusions of non-diatreme kimberlitic nature.

The Residual Magnetic Intensity nT airborne survey portrays a strong series of east-west trending, strongly magnetic, basement rocks situated in the central part of the property which are, in the author's opinion and observation, not a good fit to the north-south direction of historically mapped geological units. However, to support this hypothesis the magnetic survey does fit well to the mapped mafic dikes. The recent prospecting has confirmed that the geological units overlying the magnetic

survey are non-magnetic and that one possible explanation is the basement rocks below the known geology mapping are of a mafic volcanic suite in nature and is covered by Nipissing Diabase rocks (Nipissing mafic sills (2219 Ma): mafic sills, mafic dikes and related granophyre), Coleman conglomerate Cobalt Group Sedimentary rocks (siltstone, argillite, sandstone, conglomerate), Diorite-Monzodiorite-granodiorite rocks and Metasedimentary rocks (wacke, siltstone, arkose, argillite, slate, mudstone, marble, chert, iron formation, minor metavolcanic rocks, conglomerate, arenite, paragneiss, migmatites). All historical mineral occurrences and showings on the Property are situated on the margins of the Residual Magnetic Intensity nT airborne survey.

The Ontario Geological Survey (OGS) Temiskaming Area Airborne Magnetic Survey (Purchased from Terraquest Ltd., magnetic survey, first vertical derivative of the magnetic field and Keating Coefficients – MAP 60 102-Revised originally flown for Spider Resources Inc.) portrays isolated and various sized weak to strong magnetic signatures similar to magnetic signatures hosting cobalt and other metals in the Cobalt Camp and townships to the north and south including; Supreme Metals Corp. property in Ingram Township, Blackstone Development Inc. property in Mulligan Township, SEDEX style mineralization in Pense Township, and Brixton Metals Corporation properties in Casey Township.

OGS REPORT MP069 is reference herein when comparing the project areas geological environment containing known copper and cobalt sulfurization with similarities to other cobalt hosted showings and deposits in the Englehart – Earlton (Cobalt) districts. The OGS airborne survey series excluded electromagnetic results (reference: Geophysical Data Set GDS 1210-Revision 1).

Gold, zinc, copper, silver, nickel and cobalt is included within the Property.

## PROPERTY: HISTORICAL MINERAL EXPLORATION

The Property host three (3) mineral occurrence entries into the Ontario Mineral Deposit Inventory.

- 1. MDI31M13SE00008, Golden Poly Property, Primary commodities include copper and zinc, secondary commodities include gold, silver and cobalt.
- 2. MDI31M13SE00009, Gagne Property, Primary commodities include copper, zinc and nickel, secondary commodity, silver.
- 3. MDI00000001566, Tyranex DDH Tp-3, Primary commodities include nickel and copper.

Exploration activity at the Pense Township zinc occurrence, current to 1993 are hosted in Neoarchean Clastic Metasedimentary and Neoarchean Metavolcanic rock suits.

- Sulphide mineralization was first discovered by L. Shortt in 1950 in Concessions 3 and 4, Lots 10 and 11, Pense Township. W.S. Savage reported (Assessment Files, Resident Geologist's office, Cobalt) that the L. Shortt occurrence consisted of trenches and test pits sunk on mica schists interlayered with dense black slaty rock hosting minor amounts of disseminated pyrrhotite, pyrite, galena and sphalerite. Old trenches sunk on similar host rocks and mineralization at the Inco showing, east of the Pense Township zinc occurrence (Parker 1993), may have also been excavated by L. Shortt.
- G.J. Gereghty and L.A. Waddell (Wabi River Mining Syndicate) discovered the Pense Township zinc occurrence during a diamond drill program in 1969. Diamond drill hole No.5 intersected 1.93% Zn and 0.18% Cu across 28.9 feet in a siliceous mineralized zone, (Assessment File 2.12129, Resident Geologist's office), Kirkland Lake. Subsequent diamond drilling in 1970 intersected 2 separate mineralized sections which analyzed 1.41% Zn and 0.16% Cu across 43.0 feet and 1.88% Zn and 0.16% Cu across 29.7 feet in diamond drill hole No.10, Assessment File 2.12129, (Resident Geologist's Office, Kirkland Lake). In 1993, diamond drilling by Tyranex Gold Inc. intersected a siliceous mineralized zone that analyzed

1.46% Zn and 0.14% Cu across 5.4 feet in diamond drill-hole T-1-93 which was drilled to intersect the mineralization encountered in drill holes No.5 and No.10, W. Whymark, Tyranex Gold Inc., (written and personal communication, 1993).

 Novawest Resources Inc. acquired the property in 1997 and completed ground geophysical surveys and a diamond drilling project, Novawest Resources Inc., Press Release, December 5, 1997 (OFR5996).

Nipissing Diabase: The mineralized quartz/calcite veins within the Nipissing Diabase sill in contact with the Huronian Supergroup contain chalcopyrite, pyrite with minor galena, as noted in the 1953 report that erythrite (cobalt bloom) mineralization (oxidization) was observed in the Cobalt Conglomerate, similar mineralized environments for cobalt in the Cobalt Camp and greater "Cobalt Embayment". The Pense Property includes the Armstrong; Cumming, R. Occurrence 1953 (location 6 on OGS Preliminary Map P.1249 and OGS MP69, pg12) Concession II, Lot 6 N. ½ Pense township.

#### PENSE TOWNSHIP

#### Armstrong; Cumming, R. Occurrence 1953 (6)

In a short note R. Thomson (1953) described small trenches in Nipissing diabase, Pense Township, concession II, lot 6, N $\frac{1}{2}$ , NW and SW $\frac{1}{4}$ , containing quartz-calcite veins with minor galena and chalcopyrite. Diabase is exposed also in contact with Cobalt conglomerate, in small pits containing a little cobalt bloom. In 1976 the claims were open for staking.

Considering the geological setting and relation to other cobalt models, coincidental cobalt mineralization at NW trending fault zones in contact with Nipissing Diabase and Cobalt Conglomerate including Mr. Gary Grabowski's recommendations "the Pense Property and abutting Crown and Patented lands have to potential to host cobalt and other minerals. This part of the Property area has not seen any significant exploration documented in the public records since 1953".

## PEOPERTY: LOCATION, ACCESS, TOPOGRAPHY

The Pense Property is easily accessed from the west via a concession road which branches off Highway 11 north. This all-season primary, graveled surface concession road, secondary seasonal dirt road and finally by off-road vehicle or snow machine following the OFSC snowmobile trail. Topography includes 30% bedrock outcropping, a mantle of varved clay and unconsolidated glacial deposition of clay rich till sand and gravel. There are no significant, navigable water bodies excepting the log choked Pontleroy Creek which includes numerous rapid areas. The Property has flat and swampy low areas, elevated with moderate shallow drift in places. Forested areas include mixed boreal forest and shrub brush.

## **PROPERTY: OWNERSHIP**

The Pense Property was acquired by staking of 13 unpatented mining claims recorded 1/3, 1/3, 1/3 in the names of Gino Chitaroni, Don Fudge and Marc Gaudreau. Mining claims; 4284354 - 4284356, 4285125 - 4285128, 4288413 - 4288418 (totalling 134 units). In 2019 the 134 unites were converted to 150 cell claims listed below.

Claim #	Status	Issue Date	Anniversary Date	Owner Client #'s	Annual Requirement
100157	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
100492	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00

100493	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
100510	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
100534	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
100576	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
101888	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
101911	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
115783	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
115784	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
115799	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
115800	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
115814	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
115815	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
115864	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
115865	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
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128357	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
128358	Active	2018-04-10	2019-12-27	117874, 133964, 408864	200.00
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169690	Active	2018-04-10	2019-09-13	117874, 133964, 408864	400.00

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296901	Active	2018-04-10	2019-12-27	117874, 133964, 408864	400.00
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336071	Active	2018-04-10	2019-09-13	117874, 133964, 408864	200.00
336072	Active	2018-04-10	2019-09-13	117874, 133964, 408864	400.00
344063	Active	2018-04-10	2019-09-13	117874, 133964, 408864	200.00
344700	Active	2018-04-10	2019-09-13	117874, 133964, 408864	200.00
344701	Active	2018-04-10	2019-09-13	117874, 133964, 408864	200.00
344702	Active	2018-04-10	2019-09-13	117874, 133964, 408864	200.00
					<b># 45 000 00</b>

## PROPERTY: GEOLOGY ABSTRACT

The Englehart-Earlton area comprises six adjacent townships each being six miles square (90 km 2), extending westward from the Ontario-Quebec boundary between the silver-mining community of Cobalt and the goldmining community of Larder Lake, Ontario. The names of the townships are Evanturel, Ingram, Pense, Armstrong, Hilliard, and Brethour. Their economic mainstay at present is the agricultural industry established primarily on silt and clay soil deposited on the bed of glacial Lake Barlow-Ojibway, which formerly occupied the central trough of the Lake Timiskaming Rift Valley, a geomorphological expression of the most prominent bedrock structural feature in the map-area.

The main geological value of the Englehart-Earlton area to date is its Pleistocene sand and gravel, Paleozoic limestone road fill and metallurgical material, and picturesque geomorphological formations such as escarpments and a series of waterfalls at Kap Kig-Iwan Provincial Park caused by resistant Early Precambrian metavolcanic bedrock.

The potential for detection of concentrations of base metals seems confined to Pense and Brethour Townships where, unlike the other four townships, the Early Precambrian (Archean) rock formations are not completely covered by soil, flat-lying Paleozoic rocks, or Proterozoic sedimentary and intrusive rocks that are essentially barren of economic metals, with the possible exception of silver. Early Precambrian iron formation, associated with ultramafic rocks and metasediments, occurs in Pense Township, in the least accessible part of the map-area, and has not been explored extensively for base metals.

## PROPERTY: REGIONAL & GENERAL GEOLOGY

The Englehart-Earlton area contains metavolcanic, metasedimentary and intrusive bedrock units of Early Precambrian (Archean) age, intrusive and sedimentary rocks of Middle Precambrian (Proterozoic) age, and sedimentary rocks of Paleozoic age. The Early Precambrian rocks lie on the southern margin of the Abitibi Belt that extends from Chibougamau to Wawa (Goodwin and Ridler 1970). The Middle Precambrian rocks comprise part of the Cobalt Plain (or Plate) that extends from Sudbury to Kirkland Lake (Card *et al.* 1972). The Paleozoic rocks are related to the Ordovician rocks of Lake Nipissing (Hume 1925, p.13) and the Silurian rocks of the James Bay lowlands and Manitoulin Island (Sanford *et al.* 1968). Surficial deposits cover most of the bedrock. They consist of Pleistocene clay, sand, gravel, and glacial till. Recent deposits consist of alluvium and peat.

Lovell, H.L.

1977: Geology of the Englehart-Earlton Area, District of Timiskaming; Ontario Geological Survey Miscellaneous Paper 69, 16p. Accompanied by Map P.1249, scale l inch to V2 mile (1:31,680).

## Pense Property - Notes by Gary Grabowski, P.Geo.

- The geology of the Pense Township claims is similar to that of the Cobalt-Silver Centre-Gowganda silver-cobalt mining area. The simplified geology of these areas consists of Archean (~2700 Ga) metasedimentary and metavolcanic rocks and granitic intrusions, Huronian Cobalt Group Gowganda Formation conglomerate and argillite and Nipissing Diabase sills. The property is about 20 km north of the past producing Langis Mine, presently being explored by Brixton Minerals, and 45 km north of the main Cobalt mining camp.
- 2. The Pense Township zinc occurrence is situated in the Pontiac Subprovince within a thick, east--striking, south--dipping sequence of turbiditic metasedimentary rocks interlayered with komatiites and mafic, tholeiitic metavolcanic flows. Zinc--rich sulphide mineralization occurs within interflow argillite and tuff at contacts between the wackes and metavolcanic flows. The komatiites, mid--ocean ridge--type tholeiitic basalts (N--MORB) and metasedimentary rocks

may have been deposited in an extensional tectonic setting within an ocean basin (Parker, 1999).

- 3. The Cobalt Embayment is an irregular domain of Paleoproterozoic (2.45 2.22 Ga) siliciclastic sedimentary rocks (i.e. the Huronian Supergroup) that unconformably overlies Archean basement rocks of the Abitibi Greenstone Belt. The Nipissing Diabase, a regionally-distributed complex of mafic sills and dikes, intruded the Huronian sedimentary rocks ca. 2.22 Ga. The sedimentary rocks were subsequently affected by a poorly constrained subgreenschist-facies metamorphism (Easton, 2000) and by a regionally-distributed, K- and Na-metasomatic event at ca. 1.7 Ga Ma, likely related to the waning stages of the Penokean orogeny (Fedo et al., 1997). <u>Although best known for the economically important Ag-Co veins of the Cobalt mining camp, the Cobalt Embayment also hosts numerous other regionally-distributed, polymetallic (Fe, Cu, Ni, Co, As, Au, Ag, Bi ± U) calcite-quartz vein systems. (Potter, 2010)</u>
- 4. Nipissing diabase outcropping on the claims should be investigated for jointing directions, paying particular attention to any of a circular nature. Silver-cobalt-copper deposits in the Gowganda-Elk Lake area are found within these "cylindroidal" joints in Nipissing diabase. (Eakins, 1961 and Hester, 1967)
- 5. Assessment files submitted for the property area show that there are numerous base metal showings (Cu, Zn, Ni) in the Archean rocks. These rocks are covered by Proterozoic units on the western part of the claim group. The current deposit model for silver-cobalt veins (Andrews, 1986 and Smyck, 1990) suggests that the intrusion of the diabase sills provided the source for hydrothermal fluids which remobilized metals in the surrounding rocks and deposited them as veins in suitably fractured rock (Huronian Conglomerate in Cobalt and Archean (Keewatin) volcanics in Silver Centre) and cooling fractures within the diabase (Gowganda-Elk Lake). The best producing silver veins in Cobalt were found in Huronian conglomerate above interflow sediments. The Archean rocks exposed on the property should be investigated for strike of the stratigraphy and mineralization in order to determine where it projects under the overlying Huronian sediments and diabase.
- 6. The Lake Temiskaming Structural Zone, a major north-west trending regional structure, cuts through the property. This can be seen clearly in the alignment of the magnetic anomalies. This structure is a significant locus for the silver-cobalt veins as well as younger kimberlite bodies.
- Preliminary Map P.1222 (Lovell and Frey, 1977) shows more faults than that shown on Geology Ontario, OGS Earth and ClaimapsIV. Of note is a NE trending fault along Pontleroy Creek in Concession IV and V heading into Quebec and a NW trending fault parallel to and about a mile east of the main Lake Temiskaming Structural Zone fault shown on the OGS online maps.
- A cursory investigation indicates base metal mineralization to the east in Montreuil Township in Quebec. The Montreuil Zn-Cu-Ni occurrence (UTM 611136E, 5297405N) is about 2 km east of the Golden Poly MDI occurrence (31M13SE00008) in Pense Township.
- 9. The geology within the townships of Pense and Brethour is somewhat similar to that of the Cobalt-Silver Centre-Gowganda silver-cobalt mining area. The simplified geology of these areas consists of Archean (~2700 Ga) metavolcanic rocks and granitic intrusions, Huronian Cobalt Group Gowganda Formation conglomerate and argillite and Nipissing Diabase sills. The property is about 12 km north of the past producing Langis Mine, presently being explored by Brixton Minerals.
- 10. The Cobalt Embayment is an irregular domain of Paleoproterozoic (2.45 2.22 Ga) siliciclastic sedimentary rocks (i.e. the Huronian Supergroup) that unconformably overlies Archean basement rocks of the Abitibi Greenstone Belt. The Nipissing Diabase, a regionally-distributed

complex of mafic sills and dikes, intruded the Huronian sedimentary rocks ca. 2.22 Ga. The sedimentary rocks were subsequently affected by a poorly constrained subgreenschist-facies metamorphism (Easton, 2000) and by a regionally-distributed, K- and Na-metasomatic event at ca. 1.7 Ga Ma, likely related to the waning stages of the Penokean orogeny (Fedo et al., 1997). <u>Although best known for the economically important Ag-Co veins of the Cobalt mining camp, the Cobalt Embayment also hosts numerous other regionally-distributed, polymetallic (Fe, Cu, Ni, Co, As, Au, Ag, Bi ± U) calcite-quartz vein systems. (Potter, 2010)</u>

*Mr.* Gary Grabowski, who is a member of the Association of Professional Geoscientists of Ontario. *Mr.* Grabowski is a geological consultant for the Pense Property. *Mr.* Grabowski has forty years relevant exploration experience, which is relevant to the style of mineralization and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person.

## PROEPRTY: RECOMMENDATIONS & SUGGESTED EXPLORATION STRATEGY

 OGS Quaternary Geology Map 2657 shows the area to be mostly covered by swamp and glaciolacustrine clay. Overburden thicknesses shown on OGS Map P.1249 can exceed 200 feet. In order to better define the underlying geology and structures it is recommended to conduct an airborne magnetic/electromagnetic survey similar to the one conducted for Cobalt Power Group's Smith Cobalt Project.

https://static1.squarespace.com/static/556b381ce4b061dc075fe46b/t/588f48eee6f2e152d3f1d 9d2/1485785359979/EagleGeophysics\_CobaltPower\_Survey\_Report\_V3.pdf

- 2. Prospect/map and sample the outcrop areas found on the property to "ground truth" results from the airborne surveys. The Archean Pontiac Group rocks exposed on the property should be investigated for strike of the stratigraphy and mineralization in order to determine where it projects under the overlying Huronian sediments and diabase.
- 3. Ground geochemical surveys such SGH or MMI to "see through" the lacustrine clay deposits.
- 4. Follow-up ground geophysical surveys if necessary, to identify potential diamond drill targets.

Gary Grabowski, 2018

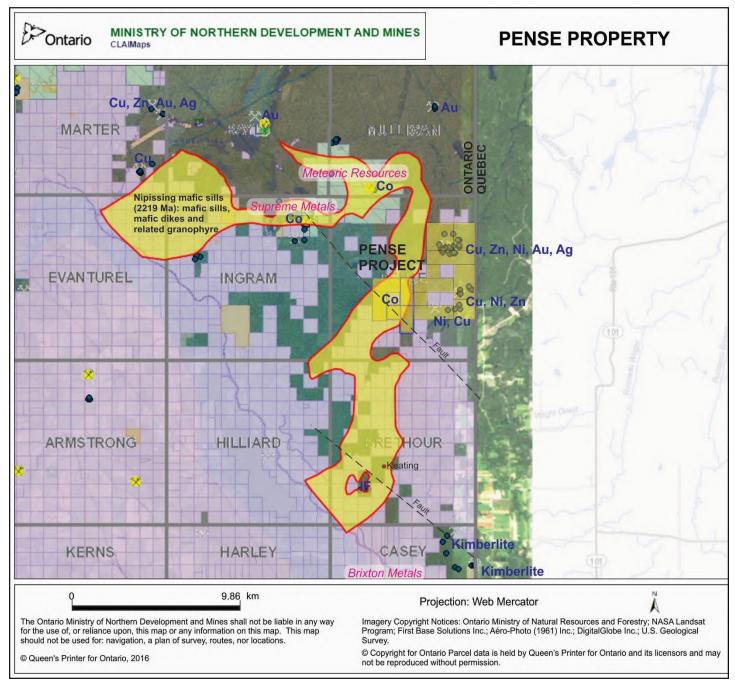
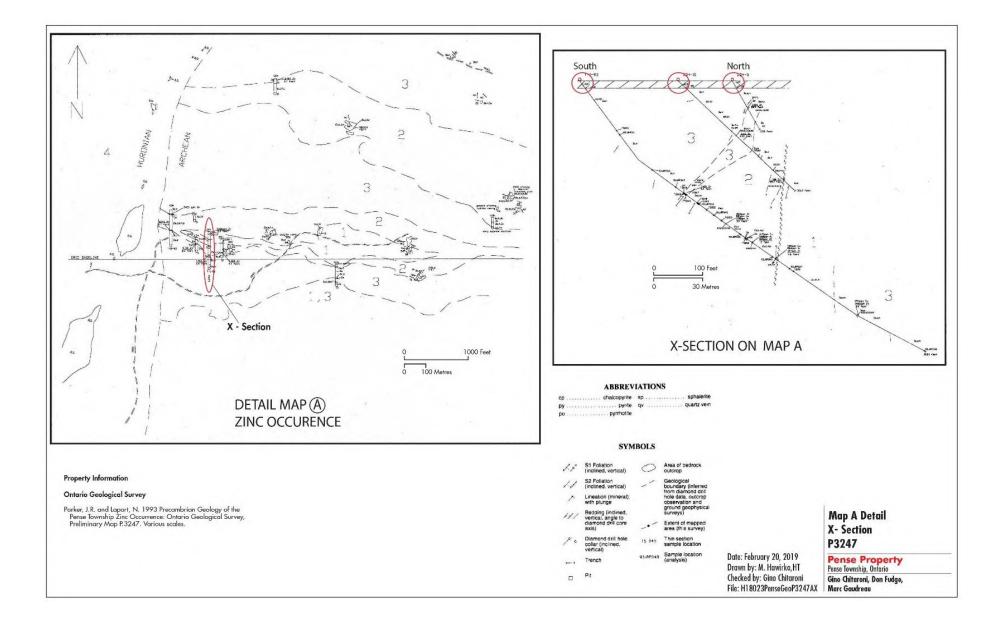


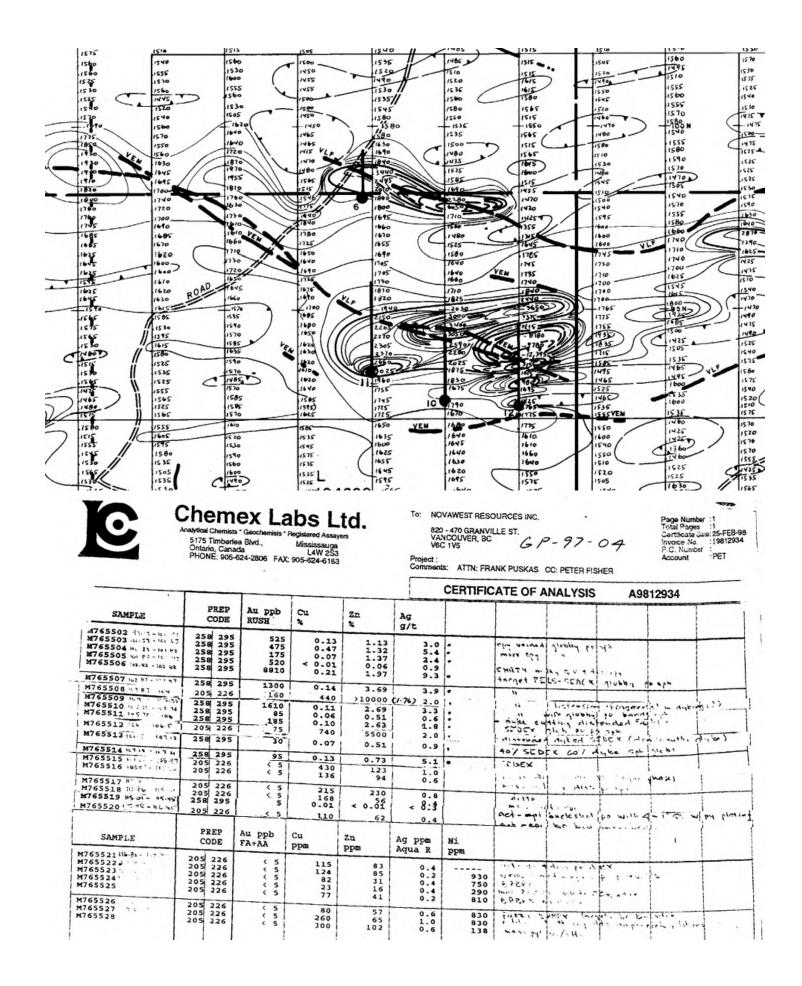
Figure 1. The Pense Project location map including Nipissing Diabase unit, other active cobalt project areas, mineral occurrences, major NW trending faults associated with kimberlites and land superimposed over a Google Earth Image.

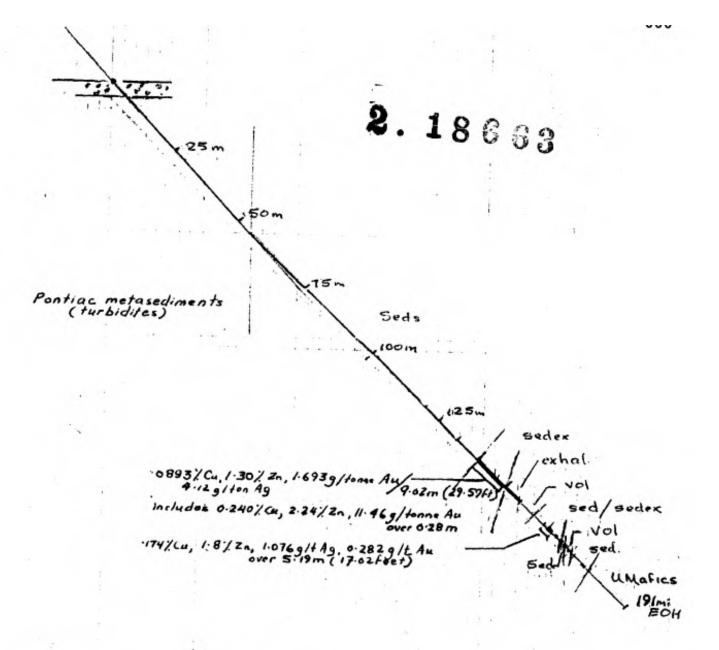
Summary of selected historical exploration highlights:

- 1997 drilling hole DDH 97-03, 0.893% Cu, 1.30% Zn, 4.12 gr/t Ag, 1.693 gr/t Au over 9.02 meters.
- 1997 drilling 0.5 gram of gold associated with zinc and copper over 42 feet.
- In the same mineralized section of drilling above, 11.46 gr/t gold over 0.24m.

Included below are several images cropped from historical assessment reports in MLAS: 31M13SE0001, 31M13SE0006, 31M13SE0007, 31M13SE0008, 31M13SE0009, 31M13SE0010, 31M13SE0011, 31M13SE0012, 31M13SE0013, 31M13SE0013, 31M13SE0014, 31M13SE0015, 31M13SE0016, 31M13SE0017, 31M13SE0018, 31M13SE0040, 31M13SE0119, 31M13SE0120, 31M13SE2002, 31M13SE2003, 31M13SE2004, 31M13SE9685, 20002661, 20004049, 20004162 and 20004443.







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NOVAWEST RESOURCES INC. GOUDEN POLY PROJECT 10.1 PENSE TWP L 35+ OOW Looking West GEOSCIENCE ASSESSMENT OFFICE DDH: GP: 97:03 (-17"); Azimuth 0+00" ( ( casing 6 m) 1 1 1 1

25m



## Chemex Labs Ltd.

alytical Chemists \* Geochemists \* Registered Assa 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

<b>)</b> :	NOVAWEST	RESOURCES INC.	

820 - 470 GRANVILLE ST. VANCOUVER, BC 6P-97-03 V6C 1VS

Page Number :1 Total Pages :1 Certificate Date: 19-JAN-98 Invoice No. :19810572 P.O. Number : PET Account

Project : Comments: ATTN: PETER FISHER CC: FRANK PUSKAS

					(	CERTIFICATE OF ANALYSIS	A9810572
SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm				
M765401 M765402 M765403 M765404 M765405	205 226 205 226 205 226 205 226 205 226 205 226	120 20 225 210 2160	172 86 62 3350				
M765406 M765407	205 226 205 226	235 245	340 57				
SAMPLE	PREP	Au ppb FA+AA	Cu ppm	Ag ppm Aqua R			
M765408 M765409	205 226 205 226	440 110	-83	5.0			
SAMPLE	PREP	Au g/t	Ag g/t	Cu *	Zn %		
M765410 139 58 - 140 M765411 No - 1444 M765412 W Rx 142 54 M765413 M2 54 - 142 58 M765414 142 68 - 33 og	208 226 208 226 208 226 208 226 208 226 208 226	0.12 2.61 3.99 1.32 0.24	1.5 5.7 4.2 3.3 1.8	0.07 0.17 0.07 0.06 0.03	0.01 0.81 1.16 1.27 0.24		
M765415 W RX M765416 M765417 M765418 M765419	208 226 209 226 208 226 208 226 208 226 208 226	0.42 1.05 1.89 11.46 3.27	2.7 3.0 3.0 13.8 6.6	0.10 0.08 0.06 0.24 0.09	2.21 2.52 1.76 2.24 0.48		
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#### Chemex Labs Ltd. Analytical Chemists \* Geochemists \* Registered Assayers

5175 Timberlea Blvd., Mississauga Ontario, Canada LAW 253 PHONE: 905-624-2806 FAX: 905-624-6163

To: NOVAWEST RESOURCES INC.

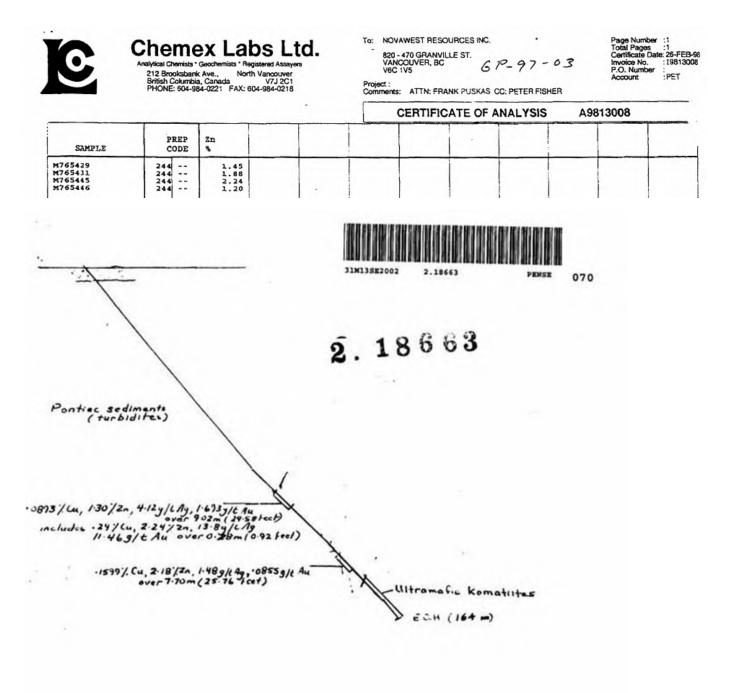
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VANCOUVER, BC GP-97-03

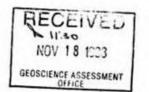
Page Number :1 Total Pages :1 Certificate Date: 23-FEB-98 Invoice No. :19812878 P.O. Number : Account :PET

Project : Comments: ATTN: FRANK PUSKAS CC: PETER FISHER

CERTIFICATE OF ANALYSIS A9812878 . ł PREP Au ppb Cu Zn Ag ppm SAMPLE CODE FA+AA ppm ppm Aqua R 205 226 205 226 205 226 Sillects of po slumped tos 11 CA graph will, sized < 5 < 5 < 5 39 < 0.2 194 < 0.2 >10000(2.45) 0.6 00 M765427 10-53 - 1170 74 M765428 141-10 - 144-15 M765429 164-15 - 165-0 280 1200 . PREP Au ppb Cu Zn Ag SAMPLE CODE RUSH \* % g/t 1.33 >10000(7-88) 2.4 >10000(7-88) 1.2 500 < 0.2 0 M765430 165-0 - 165-25 M765431 165-25 - 165-85 M765432 165-25 - 167-65 258 295 205 226 205 226 0.49 × 5 5 graph lepp spotted green stas / 46 M765433 16705 - 48-0 258 295 258 295 258 295 258 295 ... 0.10 0.11 0.49 0.41 2.96 1.99 1.48 0.03 2.1 0.9 3.3 2.1 0 1100 1765434 14002 - 1700 1765435 1700 - 17094 1765436 17094 - 1715 10 10 < 5 M765437 17 5 - 17224 M765438 17244 - 17242 M765439 17247 - 1745 205 226 205 226 205 226 205 226 205 226 205 226 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 mainten fors into E ( bacs, b)) biotact rabbs - carnet sil BIF Ves crinosito - act ~~~~~ 115 1350 630 106 88 73 67 46 62 M765440 174-51 - 177.31 M765441 177.31 - 178.56 M765442 172 56 - 179.67 58 ( 0.2 60 ( 0.2 7700 1.8 >10000(2.24) 2.0 >10000(1.20) 4.2 br bo rich stump 205 205 205 205 < 5 < 5 10 25 139 380 2200 226 site lep-sits Jonph lepo M765443 179 64 - 120 56 M765444 186 52 - 160 96 M765445 160 96 - 18143 226 226 226 : 580 laminated lep efy youts M765446 181.63 - 181.90 205 226 20 4150 M765447 1219( · RZIE M765448 RZIE - K37E M765449 R378 - 1269 M765450 RE 9 - 190 c 205 226 205 226 205 226 205 226 205 226 atter um aphyric conte steatitic um < 5 < 5 < 5 5 5 5 5 790 < 0.2 < 0.2 < 0.2 760 0 215 85 58 800 42 32 . um < 0.2 ...



NOVAWEST RESOURCES INC. GOLDEN POLY PROJECT PENSE TWP L 36+00W (Locking west) DDH GP-97-04 (-50°); Azimuth 0.00°



L 25m

## List of Cell Claims

_	Pense Property Project								
	List of Claims February 6, 2019								
Claim		Cell Claim	Hectares		Units	Annual Fee	Status	Issued	Expiry
Claim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	100157	3.65	9.02	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	100492	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	100493 100510	3.49 20.00	8.62 49.42	1	\$200 \$400	Active Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	100510	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	100576	20.00	49.42	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	101888	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	101911	20.00	49.42	1	\$200	Active	2018-04-10	and the second se
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115783	20.00	49.42	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115784	20.00	49.42	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115799	9.72	24.02	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115800	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115814	14.33	35.41	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115815	20.00	49.42	1	\$400	Active	2018-04-10	
laim laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	115864 115865	9.46 20.00	23.38 49.42	1	\$200 \$400	Active Active	2018-04-10 2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	117201	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	117202	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	117988	20.00	49.42	1	\$400	Active	2018-04-10	the contract of the last of the local data
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	118015	17.66	43.64	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	124993	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	124994	3.63	8.97	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	124995	14.43	35.66	1	\$200	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	125624	3.66	9.04	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	125634	11.35	28.05	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	125643	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	125693	0.48	1.19	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	128356	3.16	7.81	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	128357	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	128358	13.14	32.47	1	\$200	Active	2018-04-10	
laim laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	128359 134569	15.65 16.72	38.67 41.32	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	141485	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142124	16.85	41.64	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142135	20.00	49.42	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142136	18.21	45.00	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142148	9.59	23.70	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142149	20.00	49.42	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142150	20.00	49.42	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142676	7.73	19.10	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142677	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	142678	6.55	16.19	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	154906	3.65	9.02	1	\$400	Active	2018-04-10	A DESCRIPTION OF A DESC
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	154915	7.79	19.25	1	\$200	Active	2018-04-10	
laim laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	154930 154931	3.68	9.09 9.07	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	154931	0.59	1.46	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	158134	9.75	24.09	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	158163	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	164164	14.42	35.63	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	169664	20.00	49.42	1	\$400	Active	2018-04-10	100000000000000000000000000000000000000
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	169690	20.00	49.42	1	\$400	Active	2018-04-10	and the second second second
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171458	3.65	9.02	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171460	20.00	49.42	1	\$400	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171461	14.92	36.87	1	\$200	Active	2018-04-10	2019-12-2
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171462	20.00	49.42	1	\$200	Active	2018-04-10	2019-12-2
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171479	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171504	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	171505	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	172059	20.00	49.42	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	174489	7.97	19.69	1	\$200	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	182488	7.03	17.37	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200101	3.64	8.99	1	\$400	Active	2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200716	20.00	49.42	1	\$400	Active	2018-04-10	
Claim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200720	20.00	49.42	1	\$400	Active	2018-04-10	
Claim Claim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200727	20.00	49.42	1	\$400	Active	2018-04-10 2018-04-10	
laim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200756 200803	18.99 20.00	46.93	1	\$400 \$400	Active	2018-04-10	
nann	100.0) GING FADE CHITARONI, (03.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	200003	20.00	49.42		\$400	Active	2010-04-10	2019-12-2

	TOTAL	150 Claims	2,183.44	5,395.40	150	\$53,200			
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	344702	15.70	38.80	1	\$400	Active	2018-04-10	2019-09
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	344701	0.02	0.05	1	\$200	Active	2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	344700	0.83	2.05	1	\$400	Active	2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	344063	6.47	15.99	1	\$400	Active	2018-04-10	2019-09
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	336072	20.00	49.42	1	\$400	Active	2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	336071	3.58	8.85	1	\$200	Active	2018-04-10	
aim aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	323471 323506	20.00 5.04	49.42 12.45	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	323470	19.43	48.01	1	\$400	Active	2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	314149	14.32	35.39	1	\$200	Active	2018-04-10	
		7							
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	311336	20.00	49.42	1	\$200	Active	2018-04-10	
aim	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	310739	20.00	49.42	1	\$400	Active	2018-04-10	
im	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	310738	20.00	49.42	1	\$400	Active	2018-04-10	
im im	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	302712	20.00	49.42	1	\$400	Active	2018-04-10	
m	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	302704 302711	20.00 5.17	49.42 12.78	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
m	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	302703	20.00	49.42	1	\$400	Active	2018-04-10	
m	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	296901	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	294239	20.00	49.42	1	\$400	Active	2018-04-10	
m	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	294201	13.69	33.83	1	\$200	Active	2018-04-10	2019-1
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	292427	7.38	18.24	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	287510	20.00	49.42	1	\$400	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286937 287510	20.00 9.74	49.42 24.07	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286926	16.68	41.22	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286920	3.64	8.99	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286919	11.61	28.69	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286274	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286273	3.63	8.97	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	286272	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	278060	13.09	32.35	1	\$200	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	275651 278060	11.38 0.62	28.12 1.53	1	\$200 \$400	Active Active	2018-04-10 2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274872	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274797	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274796	3.67	9.07	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274787	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274786	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	274136	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	273559	20.00	49.42	1	\$400	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	273558 273559	20.00 6.99	49.42 17.27	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	273029	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267433	18.59	45.94	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267388	11.27	27.85	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267387	11.23	27.75	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267373	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267372	3.66	9.04	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267362	19.33	47.77	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	267361	20.00	49.42	1	\$400	Active	2018-04-10	2019-1
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	266842	14.20	35.09	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	266716	12.38	30.59	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	265598	20.00	49.42	1	\$200	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	257635 265575	6.76 8.42	16.70 20.81	1	\$200 \$200	Active Active	2018-04-10 2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	230876	16.03	39.61	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	230354	20.00	49.42	1	\$400	Active	2018-04-10	
m	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	228426	6.76	16.70	1	\$200	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	228425	20.00	49.42	1	\$400	Active	2018-04-10	2019-0
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	227638	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	227637	19.45	48.06	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	227621	20.00	49.42	1	\$400	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	220933 227000	20.00	49.42 49.42	1	\$400 \$400	Active Active	2018-04-10 2018-04-10	and the second second second
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	220918	20.00	49.42	1	\$200	Active	2018-04-10	
1	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	220917	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	220853	3.67	9.07	1	\$400	Active	2018-04-10	
1	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	220323	20.00	49.42	1	\$400	Active	2018-04-10	
ı 1	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	219010	0.65	1.61	1	\$200	Active	2018-04-10	
n n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	218354 218379	8.60 7.64	21.25 18.88	1	\$200 \$200	Active Active	2018-04-10 2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	209021	7.36	18.19	1	\$200	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	209020	3.61	8.92	1	\$200	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	208859	20.00	49.42	1	\$200	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	208790	5.03	12.43	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	208789	20.00	49.42	1	\$400	Active	2018-04-10	
n	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	208772	20.00	49.42	1	\$400	Active	2018-04-10	
	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU (33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU	208754 208762	20.00 20.00	49.42 49.42	1	\$400 \$400	Active Active	2018-04-10	
n		208276	20.00			\$400	Active	2018-04-10	
1	(33.3) GINO PAUL CHITARONI, (33.4) DON THOMAS FUDGE, (33.3) JEAN MARC GAUDREAU			49.42	1			2018-04-10	

## 2017 prospecting site visit details

On November 4, 2017 M. Gaudreau and Phil Align (prospecting site visit field party) visited the Pense Property (Property) to examine specifically an area with a pit of unknown vintage however is documented to contain copper and cobalt (erythrite) mineralization.

The team left Marsh Bay Resort in Cobalt and travelled to the parking location at NAD83 Zone 17 605809E, 5291604N and walked in on the snowmobile trail to location of the Pit approximate location NAD83 Zone 17 606710E, 5292675N on claim 117988.

A 200 meter radius, east south and west of the pit was also prospected. In several areas along the contact of the medium grained diorite and dark grey to black, vertically dipping, thinly and well fused bedded argillite numerous small stripping areas was completed to better expose the rock (<1m diameter). In a few places up to 3cm wide, vertically dipping, smoky quartz veins were observed and examined. They did not contain sulphides. See ACTIVE LOG 391 005, ACTIVE LOG 393 005 and ACTIVE LOG 381 005. Prospecting on claims 117988, 273029, 118015 and 273558.

During the one day of prospecting (see ACTIVE LOG 391 005 and ACTIVE LOG 381 005 in Google Earth Image) five (5) samples were taken. Sample Pense-01-2017 was float, taken as a reference sample as the matrix was pyrite rich in a conglomerate. Another float sample of dark slate with minor disseminated pyrite mineralization was also taken as a reference sample, the weathered surface had a pinkish "cobalt bloom" colour. Close examination afterwards concluded that no cobalt bloom was present.

A new area (3m width x 15m length) containing numerous EW striking narrow quartz carbonate veins containing chalcopyrite mineralization in the form of up to 85% mineralized veins was discovered in diorite rock approximately 50m southwest of the Pit at coordinate NAD83, Zone 17 606693, 5292821N. Unfortunately, three (3) samples taken in this area returned uneconomic results; Pense-03-2017-A, Pense-03-2017-B and Pense-03-2017-C returned 8.7 ppb Au, 0.22 ppb Pd and .83 ppb Pt, 16 ppm Co, 1208 ppm Cu and 45 ppm Ni. A check on the silver value using AAF-2300 returned low values as well, including up to 4 ppm and gold using IMP-101 5.3 ppb Au. A sample taken from the dump of the 3m x 3m Pit returned 1.4 oz/T Ag.

Sample descriptions (see Assay Certificates for analytical details):

PENSE-PIT, NAD83 Zone 17 606727E, 5292808N, mineralized diorite within quartz-calcite vein.

PENSE-MG-01-2017, NAD83 Zone 17 606710E, 5292675N, mineralized diorite "float" near numerous small smoky quartz veins with pyrite and chalcopyrite.

PENSE-MG-02-2017, NAD83 Zone 17 606684E, 5292723N, taken while prospecting the east side of the Nipissing diabase in contact with dark grey argillite.

PENSE-MG-03-2017, NAD83 Zone 17 606693E, 5292821N, southwest of the pit, narrow east-west trending veins, mineralized with chalcopyrite and pyrite. Three (3) samples were taken from this area all in close proximity and returned as noted above "Pense-03-2017-A, Pense-03-2017-B and Pense-03-2017-C returned 8.7 ppb Au, 0.22 ppb Pd and .83 ppb Pt, 16 ppm Co, 1208 ppm Cu and 45 ppm Ni. A check on the silver value using AAF-2300 returned much lower values, up to 4 ppm and gold using IMP-101 5.3 ppb Au".

At the end of the day with a few hours of daylight remaining the team returned to the truck and drove back to Marsh Bay Resort. The next day they returned to Sudbury and Hanmer, approximately a 500

kilometre round trip. A portion of the samples was sent to the Ontario GEOLabs for analysis with included Cu, Ni, Au, Ag and PGE's.

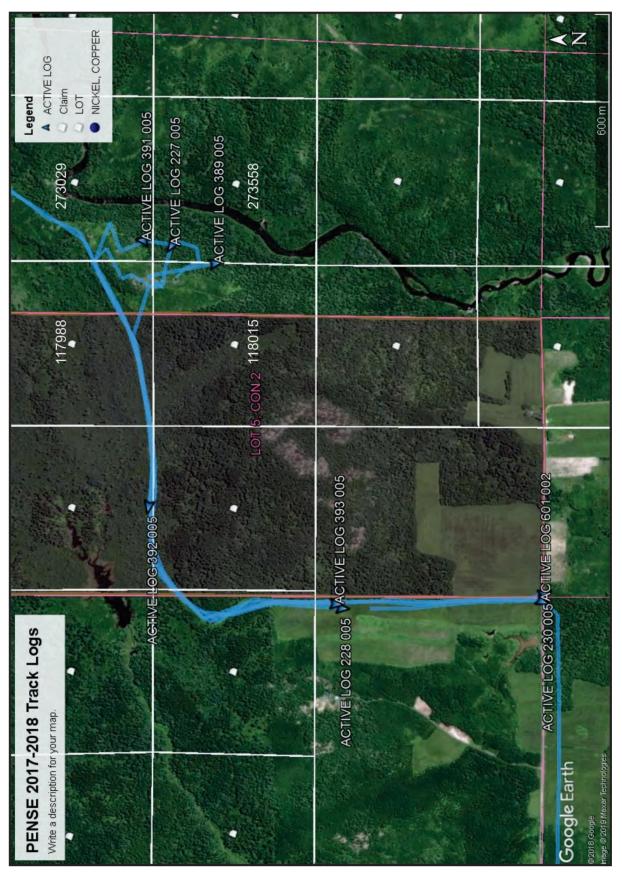


Figure 2 Pense Property Track Logs 2017 - 2019



Sample: Pense Pit 2017





Sample: Pense-02-MG-2017



Sample: Pense-03-2017 A



Sample: Pense-03-2017 B

## 2018 prospecting site visit details

On August 2, 2018 M. Gaudreau departed Hanmer and drove to North Bay on Highway 17 East and met with Westley Fudge then they switched vehicles and continued traveling to the Pense Property on Highway 11 North. The objective of the site visit was to further check the contact of the diabase and argillite located on the east of the Pit (see ACTIVE LOG 227 005 and ACTIVE LOG 228 005).

The team parked in the field at approximately NAD83, Zone 17 605777E, 5292195N. Usually the vehicles are parked at the main road, but the field was dry enough to park near the tree line and save a 500m walk.

The team continued to prospect the contact of the diorite and argillite but was not successful in locating any new mineralization. It started to rain and the team took shelter thinking it would end within a short period but the rain continued and saturated the forest and the prospecting became dangerous on the cliff face so they moved to the top of the ridge where again the forest was saturated. Without rain suites the team was soon soaked and called it a day.

Rained out... the weather called for intermittent thunderstorms, was to be north of the team's location. Also, some concern has had that the truck might get stuck in the field as it had a clay base. Indeed, the clay field bed was saturated, but the team arrived back at the truck and left the site before the clay softened to the point the truck would get stuck.

No samples taken on this day. Field notes didn't contain any additional information for the area and no samples were taken.

The team returned to North Bay and M. Gaudreau to Hanmer.



**CERTIFICATE OF ANALYSIS** 



Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau	Certificate No:	CRT-17-0376-04
		Certificate Date:	29/11/2017
	304 Tupper Street	Project Number:	
	Hanmer, ON P3P 1G6 Canada		
DI		Geo Labs Job No:	17-0376
Phone:	705-969-8846	Submission Date:	11/08/2017
Fax:			
Email:	canmap@cyberbeach.net	Delivery Via:	Email
Client No:	730	QC Requested:	Y

#### Method Code reported with this certificate:

IMP-101

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	3	Completed
GFA-PBG	Gravimetric Fire Assay	1	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	3	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	3	Completed
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	4	Completed
SOL-OT3	Open Vessel Multi-Acid Digestion	3	Completed
SOL-PGH	PGE High Digestion	3	Completed

Please refer to the Geo Labs Job No. 17-0376 if you have any questions. **CERTIFIED BY :** 

Page 1 of 1

John Beals, GeoServices Senior Manager

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Date:

POntario

 Client:
 Gaudreau

 Geo Labs
 17-0376

 Date:
 23/11/2017

 Method Code:
 GFA-PBG

Sample ID	Client ID	QC ID	Ag	Au
Units			oz/ton	oz/ton
<b>Detection Limits</b>			0.1	0.016
17-0376-0004	PENSE_PIT		1.4	< 0.016
Dup-17-44714	PENSE_PIT	DUP	1.8	< 0.016

## GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS





## **CERIFICATE OF QUALITY CONTROL**

## **GEO LABS**

**GEOSCIENCE LABORATORIES** 

**Date:** 11/23/2017

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client: Gaudreau Project #:

#### **Geoscience Laboratories Ref # :** 17-0376

Method:	GFA-PBG

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
Dup-17-44714	PENSE_PIT	DUP	Ag	oz/ton	1.8		
Dup-17-44714	PENSE_PIT	DUP	Au	oz/ton	0.000		
IHST-17-24997		SQ-88	Ag	oz/ton	5.5		
IHST-17-24997		SQ-88	Au	oz/ton	1.173		
INTL-17-30679		PJV-2	Ag	oz/ton	0.0		
INTL-17-30679		PJV-2	Au	oz/ton	0.256		

Note



**CERTIFICATE OF ANALYSIS** 



Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau		Certificate No:	CRT-17-0403-03
			Certificate Date:	12/12/2017
	304 Tupper Street		Project Number:	RE 17-0376
	Hanmer, ON P3P 1G6 Canada	ľ		
Dhanat	705 040 9946		Geo Labs Job No:	17-0403
Phone:	705-969-8846		Submission Date:	11/28/2017
Fax:		ł		
Email:	canmap@cyberbeach.net		Delivery Via:	Email
Client No:	730		QC Requested:	Y

#### Method Code reported with this certificate:

AAF-101

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	1	Completed
AAF-200	AAS: Atomic Absorption Flame	4	In-Progress
GFA-PBG	Gravimetric Fire Assay	3	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	1	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	1	In-Progress
SOL-OT1	Open Vessel Multi-Acid Digestion (For Ag)	4	In-Progress
SOL-OT3	Open Vessel Multi-Acid Digestion	1	Completed
SOL-PGH	PGE High Digestion	1	Completed

Please refer to the Geo Labs Job No. 17-0403 if you have any questions. **CERTIFIED BY :** 

Page 1 of 1

John Beals, GeoServices Senior Manager

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Date:

Ontario

 Client:
 Gaudreau

 Geo Labs
 17-0376

 Date:
 29/11/2017

 Method Code:
 IMP-101

## GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS



Sample ID	Client ID	QC ID	Au	Pd	Pt
Units		_	ppb	ppb	ppb
Detection Limits			0.6	0.14	0.06
17-0376-0001	PENSE_03_2017 A		8.7	0.22	0.83
17-0376-0002	PENSE_03_2017 B		5.9	< 0.14	0.48
17-0376-0003	PENSE_03_2017 C		5.6	< 0.14	0.57
Dup-17-44845	PENSE_03_2017 C	DUP	4.0	< 0.14	0.53



## **CERIFICATE OF QUALITY CONTROL**

GEO LABS GEOSCIENCE LABORATORIES **Date:** 11/29/2017

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client: Gaudreau Project #:

#### **Geoscience Laboratories Ref # :** 17-0376

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
BLANK-17-19156		BLANK	Au	ppb	1.1		
BLANK-17-19156		BLANK	Pd	ppb	0.00		
BLANK-17-19156		BLANK	Pt	ppb	0.02		
BLANK-17-19157		RBLK	Au	ppb	0.5		
BLANK-17-19157		RBLK	Pd	ppb	0.05		
BLANK-17-19157		RBLK	Pt	ppb	0.03		
Dup-17-44845	PENSE_03_2017 C	DUP	Au	ppb	4.0		
Dup-17-44845	PENSE_03_2017 C	DUP	Pd	ppb	-0.10		
Dup-17-44845	PENSE_03_2017 C	DUP	Pt	ppb	0.53		
IHST-17-25089		LDI-1	Au	ppb	91.9		
IHST-17-25089		LDI-1	Pd	ppb	944.13		
IHST-17-25089		LDI-1	Pt	ppb	79.30		
INTL-17-30781		WGB-1	Au	ppb	2.6		
INTL-17-30781		WGB-1	Pd	ppb	8.21		
INTL-17-30781		WGB-1	Pt	ppb	3.22		



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Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau		Certificate No:	CRT-17-0403-03
			Certificate Date:	12/12/2017
	304 Tupper Street		Project Number:	RE 17-0376
	Hanmer, ON P3P 1G6 Canada	ľ		
Dhanat	705 040 9946		Geo Labs Job No:	17-0403
Phone:	705-969-8846		Submission Date:	11/28/2017
Fax:		ł		
Email:	canmap@cyberbeach.net		Delivery Via:	Email
Client No:	730		QC Requested:	Y

#### Method Code reported with this certificate:

AAF-101

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	1	Completed
AAF-200	AAS: Atomic Absorption Flame	4	In-Progress
GFA-PBG	Gravimetric Fire Assay	3	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	1	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	1	In-Progress
SOL-OT1	Open Vessel Multi-Acid Digestion (For Ag)	4	In-Progress
SOL-OT3	Open Vessel Multi-Acid Digestion	1	Completed
SOL-PGH	PGE High Digestion	1	Completed

Please refer to the Geo Labs Job No. 17-0403 if you have any questions. **CERTIFIED BY :** 

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Ontario

## GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS



# Client: Gaudreau Geo Labs 17-0403 Date: 12/12/2017 Method Code: AAF-101

Sample ID	Client ID	QC ID	Со	Cu	Ni
Units		_	ppm	ppm	ppm
<b>Detection Limits</b>			8	7	16
17-0403-0004	PENSE_PIT		16	1208	45
Dup-17-44992	PENSE_PIT	DUP	16	1212	44



## **CERIFICATE OF QUALITY CONTROL**

GEO LABS GEOSCIENCE LABORATORIES **Date:** 12/12/2017

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client: Gaudreau Project #: RE 17-0376

#### **Geoscience Laboratories Ref # :** 17-0403

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
Blank-17-19200		RBLK	Со	ppm	0		
Blank-17-19200		RBLK	Cu	ppm	0		
Blank-17-19200		RBLK	Ni	ppm	-2		
Dup-17-44992	PENSE_PIT	DUP	Co	ppm	16		
Dup-17-44992	PENSE_PIT	DUP	Cu	ppm	1212		
Dup-17-44992	PENSE_PIT	DUP	Ni	ppm	44		
IHST-17-25171		MRB-29	Co	ppm	48		
IHST-17-25171		MRB-29	Cu	ppm	146		
IHST-17-25171		MRB-29	Ni	ppm	98		
INST-17-15607		CCB	Co	ppm	0		
INST-17-15607		CCB	Cu	ppm	0		
INST-17-15607		CCB	Ni	ppm	0		
INST-17-15608		CCB	Со	ppm	0		
INST-17-15608		CCB	Cu	ppm	0		
INST-17-15608		CCB	Ni	ppm	0		
INST-17-15609		CCV	Co	ppm	4		
INST-17-15609		CCV	Cu	ppm	3		
INST-17-15609		CCV	Ni	ppm	3		
INST-17-15610		CCV	Со	ppm	4		
INST-17-15610		CCV	Cu	ppm	3		
INST-17-15610		CCV	Ni	ppm	3		
INTL-17-30901		RTS-3a	Co	ppm	141		
INTL-17-30901		RTS-3a	Cu	ppm	2212		
INTL-17-30901		RTS-3a	Ni	ppm	55		
INTL-17-30902		SU-1a	Co	ppm	358		
INTL-17-30902		SU-1a	Cu	ppm	9296		
INTL-17-30902		SU-1a	Ni	ppm	11644		
INTL-17-30903		SU-1b	Co	ppm	633		
INTL-17-30903		SU-1b	Cu	ppm	11391		
INTL-17-30903		SU-1b	Ni	ppm	18603		
INTL-17-30904		NIST-8607	Co	ppm	3		
INTL-17-30904		NIST-8607	Cu	ppm	755		
INTL-17-30904		NIST-8607	Ni	ppm	-1		



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Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau	Certificate No:	CRT-17-0403-05
		Certificate Date:	08/01/2018
	304 Tupper Street	Project Number:	RE 17-0376
	Hanmer, ON P3P 1G6 Canada	~	1 - 0 100
Di	705.000.0040	Geo Labs Job No:	
Phone:	705-969-8846	Submission Date:	11/28/2017
Fax:			
Email:	canmap@cyberbeach.net	Delivery Via:	Email
Client No:	730	QC Requested:	Y

#### Method Code reported with this certificate:

AAF-200

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	1	Completed
AAF-200	AAS: Atomic Absorption Flame	4	Completed
GFA-PBG	Gravimetric Fire Assay	3	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	1	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	1	Completed
SOL-OT1	Open Vessel Multi-Acid Digestion (For Ag)	4	Completed
SOL-OT3	Open Vessel Multi-Acid Digestion	1	Completed
SOL-PGH	PGE High Digestion	1	Completed

Please refer to the Geo Labs Job No. 17-0403 if you have any questions. **CERTIFIED BY :** 

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Date:

Ontario

 Client:
 Gaudreau

 Geo Labs
 17-0403

 Date:
 08/01/2018

 Method Code:
 AAF-200

Sample ID	Client ID	QC ID	Ag
Units			ррт
<b>Detection Limits</b>			2
17-0403-0001	PENSE_03_2017 A		2
17-0403-0002	PENSE_03_2017 B		2
17-0403-0003	PENSE_03_2017 C		2
17-0403-0004	PENSE_PIT		4
Dup-18-45165	PENSE_03_2017 B	DUP	2

## GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS





# **CERIFICATE OF QUALITY CONTROL**

GEO LABS GEOSCIENCE LABORATORIES **Date:** 01/08/2018

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client: Gaudreau Project #: RE 17-0376

### **Geoscience Laboratories Ref # :** 17-0403

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
BLANK-18-19277		RBLK	Ag	ppm	0		<u></u>
BLANK-18-19278		RBLK	Ag	ppm	0		
Dup-18-45165	PENSE_03_2017 B	DUP	Ag	ppm	2		
IHST-18-25300		MRB-29	Ag	ppm	3		
IHST-18-25301		MRB-29	Ag	ppm	3		
INST-18-15613		CCV-Ag	Ag	ppm	1		
INST-18-15614		CCV-Ag	Ag	ppm	1		
INST-18-15615		CCV-Ag	Ag	ppm	1		
INST-18-15616		CCV-Ag	Ag	ppm	1		
INST-18-15617		CCV-Ag	Ag	ppm	1		
INST-18-15618		CCB	Ag	ppm	0		
INST-18-15619		CCB	Ag	ppm	0		
INST-18-15620		CCB	Ag	ppm	0		
INST-18-15621		CCB	Ag	ppm	0		
INST-18-15622		CCB	Ag	ppm	0		
INTL-18-31040		NIST-2710	Ag	ppm	34	35	
INTL-18-31041		MP-1a	Ag	ppm	64	69.7	



**CERTIFICATE OF ANALYSIS** 



Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau		Certificate No:	CRT-17-0403-02
			Certificate Date:	05/12/2017
	304 Tupper Street		Project Number:	RE 17-0376
	Hanmer, ON P3P 1G6 Canada		a	15.0402
Phone:	705-969-8846		Geo Labs Job No:	
	103-909-8840		Submission Date:	11/28/2017
Fax:		İ		
Email:	canmap@cyberbeach.net		Delivery Via:	Email
Client No:	730		QC Requested:	Y

#### Method Code reported with this certificate:

GFA-PBG

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	1	In-Progress
AAF-200	AAS: Atomic Absorption Flame	4	In-Progress
GFA-PBG	Gravimetric Fire Assay	3	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	1	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	1	In-Progress
SOL-OT1	Open Vessel Multi-Acid Digestion (For Ag)	4	In-Progress
SOL-OT3	Open Vessel Multi-Acid Digestion	1	Completed
SOL-PGH	PGE High Digestion	1	In-Progress

Please refer to the Geo Labs Job No. 17-0403 if you have any questions. **CERTIFIED BY :** 

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John Beals, GeoServices Senior Manager

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Date:

POntario

 Client:
 Gaudreau

 Geo Labs
 17-0403

 Date:
 05/12/2017

 Method Code:
 GFA-PBG

Sample ID	Client ID	QC ID	Ag	Au
Units		_	oz/ton	oz/ton
<b>Detection Limits</b>			0.1	0.016
17-0403-0001	PENSE_03_2017 A		0.1	< 0.016
17-0403-0002	PENSE_03_2017 B		< 0.1	< 0.016
17-0403-0003	PENSE_03_2017 C		< 0.1	< 0.016
Dup-17-44902	PENSE_03_2017 C	DUP	< 0.1	< 0.016

# GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS





# **CERIFICATE OF QUALITY CONTROL**

# **GEO LABS**

**GEOSCIENCE LABORATORIES** 

**Date:** 12/05/2017

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client:GaudreauProject #:RE 17-0376

## **Geoscience Laboratories Ref # :** 17-0403

FA-PBG

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
Dup-17-44902	PENSE_03_2017 C	DUP	Ag	oz/ton	0.0		
Dup-17-44902	PENSE_03_2017 C	DUP	Au	oz/ton	0.000		
IHST-17-25139		PJV-2	Ag	oz/ton	0.0		
IHST-17-25139		PJV-2	Au	oz/ton	0.256		
INTL-17-30854		SQ-88	Ag	oz/ton	4.5		
INTL-17-30854		SQ-88	Au	oz/ton	1.146		

Note



**CERTIFICATE OF ANALYSIS** 



Geoscience Laboratories (Geo Labs) 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227

Issued To:	Mr. M. Gaudreau	Certificate No:	CRT-17-0403-04
		Certificate Date:	03/01/2018
	304 Tupper Street	Project Number:	RE 17-0376
	Hanmer, ON P3P 1G6 Canada	~	
Phone:	705-969-8846	Geo Labs Job No:	
Finone. Fax:	103-909-8840	Submission Date:	11/28/2017
Email:	canmap@cyberbeach.net	Delivery Via:	Email
Client No:	730	QC Requested:	Y

#### Method Code reported with this certificate:

IMP-101

Method Code	Description	QTY	Test Status
AAF-101	AAS: Atomic Absorption Flame	1	Completed
AAF-200	AAS: Atomic Absorption Flame	4	In-Progress
GFA-PBG	Gravimetric Fire Assay	3	Completed
GFA-PBH	Gravimetric Fire Assay Sample Preparation	1	Completed
IMP-101	Lead Fire Assay with ICP-MS Finish	1	Completed
SOL-OT1	Open Vessel Multi-Acid Digestion (For Ag)	4	Completed
SOL-OT3	Open Vessel Multi-Acid Digestion	1	Completed
SOL-PGH	PGE High Digestion	1	Completed

Please refer to the Geo Labs Job No. 17-0403 if you have any questions. **CERTIFIED BY :** 

Page 1 of 1

John Beals, GeoServices Senior Manager

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Date:

Ontario

 Client:
 Gaudreau

 Geo Labs
 17-0403

 Date:
 03/01/2018

 Method Code:
 IMP-101

Sample ID	Client ID	QC ID	Au	Pd	Pt
Units			ppb	ppb	ppb
<b>Detection Limits</b>			0.6	0.14	0.06
17-0403-0004	PENSE_PIT		5.3	< 0.14	< 0.06
Dup-17-45107	PENSE_PIT	DUP	3.4	< 0.14	0.08

# GEOSCIENCE LABORATORIES CERTIFICATE OF ANALYSIS





# **CERIFICATE OF QUALITY CONTROL**

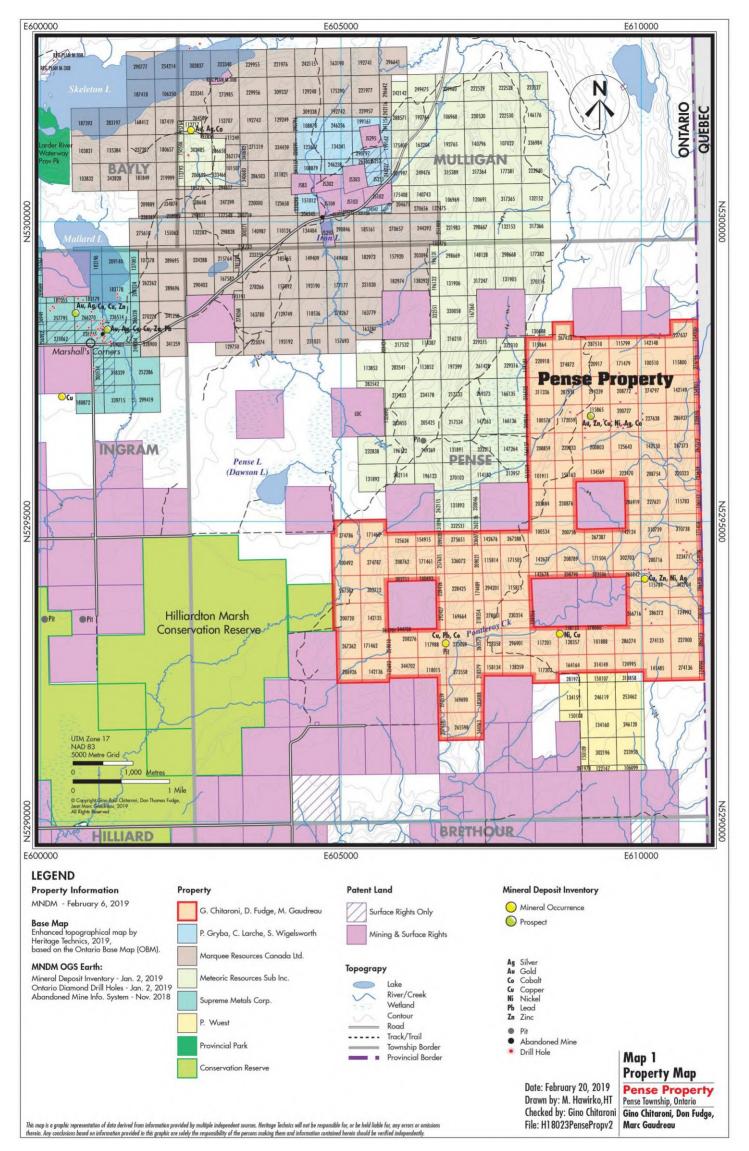
GEO LABS GEOSCIENCE LABORATORIES **Date:** 01/03/2018

Geoscience Laboratories 933 Ramsey Lake Road, Bldg A4 Sudbury, ON P3E 6B5 Phone: (705) 670-5637 Toll Free: 1-866-436-5227 Fax: (705) 670-3047

Client:GaudreauProject #:RE 17-0376

Method:	IMP-101
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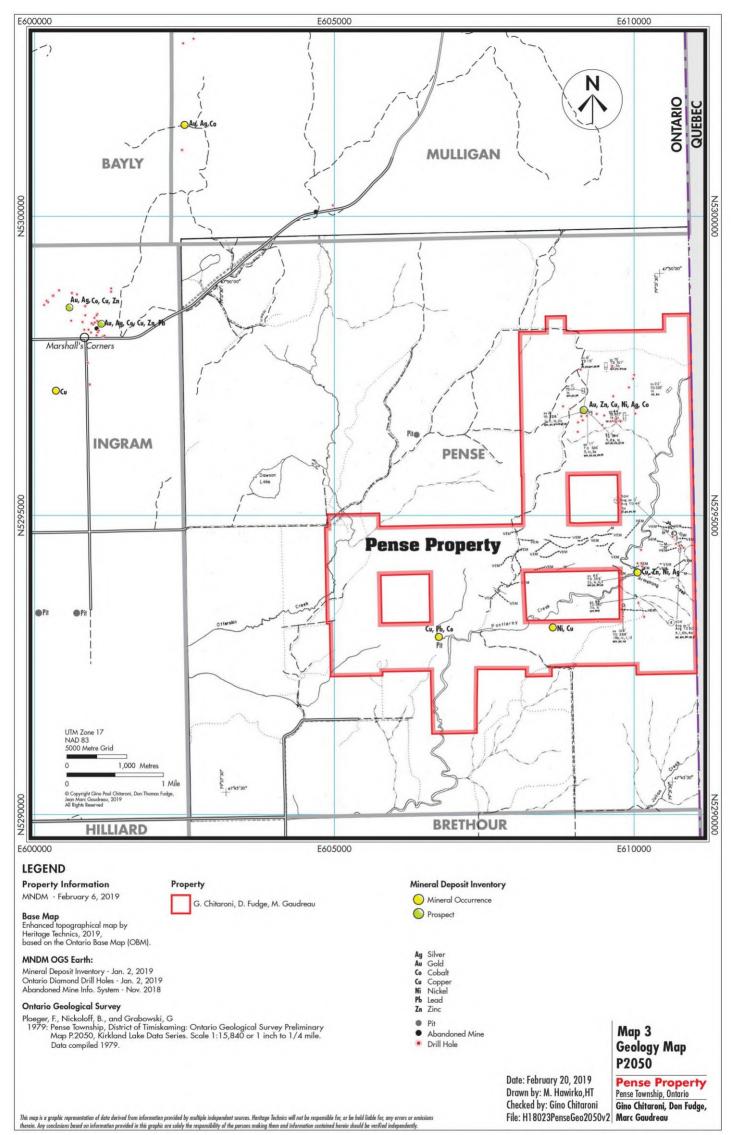
Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term
BLANK-17-19247		BLANK	Au	ppb	1.0	v alue	Average
BLANK-17-19247		BLANK	Pd	ppb	0.00		
BLANK-17-19247		BLANK	Pt	ppb	0.01		
BLANK-17-19248		RBLK	Au	ppb	0.1		
BLANK-17-19248		RBLK	Pd	ppb	0.03		
BLANK-17-19248		RBLK	Pt	ppb	0.02		
Dup-17-45107	PENSE_PIT	DUP	Au	ppb	3.4		
Dup-17-45107	PENSE_PIT	DUP	Pd	ppb	-0.10		
Dup-17-45107	PENSE_PIT	DUP	Pt	ppb	0.08		
IHST-17-25258		LDI-1	Au	ppb	124.6		
IHST-17-25258		LDI-1	Pd	ppb	731.69		
IHST-17-25258		LDI-1	Pt	ppb	90.69		
INTL-17-31004		WGB-1	Au	ppb	4.3		
INTL-17-31004		WGB-1	Pd	ppb	3.51		
INTL-17-31004		WGB-1	Pt	ppb	1.70		



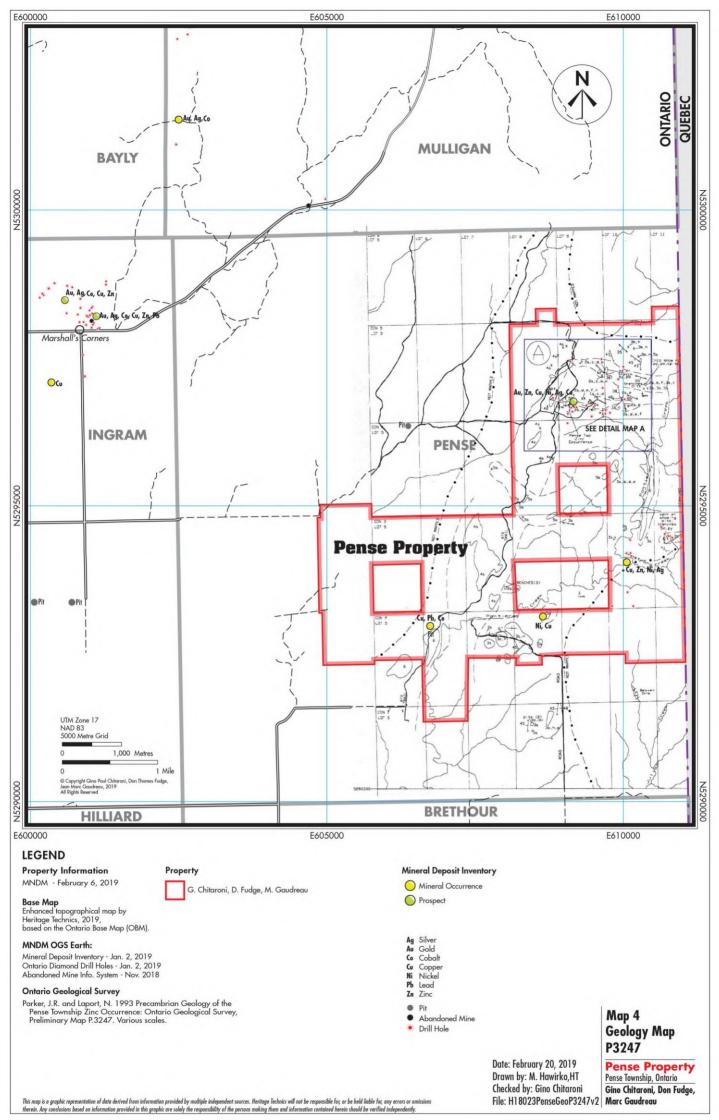
Pense Property Location Map 1

#### METAL AND MINERAL REFERENCES LEGEND Ag Silver asb Asbestos asp Arsenopyrite Au Gold bn Bornite Co Cobalt Cp Chalcopyrite Cr Coper MESOZOIC 17 17 Kimberlite INTRUSIVE CONTACT PALEOZOIC LOWER AND MIDDLE SILURIAN 16a Clinton (Thornloe) Formation: limestone, dolostone, 16 sandstone Cu .....Copper ep. ....Epidote Fe. ....Iron 4 Elucrite 16b Wabi Formation: limestone, shale MIDDLE AND UPPER ORDOVICIAN Fluorit 15a Dawson Point Formation: shale 15b Farr Formation: limestone 15c Bucke Formation: limestone, shale 15d Guigues Formation: sandstone fl 15 gt.....Garnet hem .....Hematite Hg .....Mercury UNCONFORMITY PRECAMBRIAN LATE PRECAMBRIAN (PROTEROZOIC) MAFIC INTRUSIVE ROCKS<sup>9</sup> SYMBOLS 14 14 Diabase dikes Shaft; depth in feet (for which there is underground information available). Ground electromagnetic Ground electromagnetic conductors: VEM..... vertical loop HEM.... horizontal loop VLF...very low frequency JEM.....crone EM-16 TURAM 150' VEM INTRUSIVE CONTACT MIDDLE PRECAMBRIAN (PROTEROZOIC) ALKALIC INTRUSIVE ROCKS<sup>d</sup> 13 Syenite, nepheline syenite, lamprophyre Drill hole (projected verti-cally); overburden in feet down hole (ov 80); total depth in feet down hole (TD 204) 13 Ov80' MAFIC INTRUSIVE ROCKS<sup>†</sup> 12 Diabase, transition rock, and granophyre sheets and dikes 12 2a.3 qcv,py Ground magnetometer (TD 204). M INTRUSIVE CONTACT anomaly Group of drill holes; prop-erty number 27; average (avg). 11 Lorrain Formation: quartzite, arkose 10 Gowaanda Formati COBALT GROUP 2 4DH avg ov avg TD 11 Airborne magnetometer -AM- Gowganda Formation (unsubdivided) Firstprook Member: argillite, siltstone, wacke, arkose Coleman Member: conglomerate, wacke, quartzite, anomaly 10 Radiometric anomaly -RAarkose, argillite Trenching 0 Airborne radiometric -ARA-Airborne electronic conductors: Dig......Dighem IN .....INPUT CA.....Canadian Aero Mineral Surveys Sc.....Scintrex Aerophysics of UNCONFORMITY EARLY PRECAMBRIAN (ARCHEAN) MAFIC INTRUSIVE ROCKS TYYY -R-Resistivity anomaly AEM-IN .9 **Diabase dikes** Gravity anomaly -Gr-INTRUSIVE CONTACT ALKALIC INTRUSIVE ROCKSd Induced polarization -19 8 Syenite, monzonite, lamprophyreh conductor 8 H.....Barringer Gx......Geoterrex INTRUSIVE CONTACT Geochemical anomaly (Zn) -Gc-Zn ALKALIC METAVOLCANICS<sup>b</sup> 7 Trachyte, leucitic trachyte: flows, tuff, breccia 7 METASEDIMENTS 6 Conglomerate, wacke, siltstone, slate, argillite, iron formation<sup>b</sup> 5 5 Wacke, siltstone, slate, iron formation FELSIC INTRUSIVE ROCKSd, J Granitic intrusive rocks Quartz porphyry, quartz-feldspar porphyry, feldspar porphyry, granophyre, felsite<sup>h</sup> Trondhjemite, granodjorite, quartz monzonite: simple batholiths and stocks<sup>h</sup> 4 4a 4b Trondhjemite, granodiorite, quartz monzonite, quartz diorite, aplite, pegmatite, migmatite: complex batholiths 4c INTRUSIVE CONTACT FELSIC METAVOLCANICSa.j Unsubdivided Iron formation (mag - chert; gf-py-po; green and brown dolostone) 3 3a 3b Flows Pyroclastic rocks 30 INTRUSIVE CONTACT METAMORPHOSED MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS<sup>C,J</sup> 2 2 Unsubdivided 2a 2b Gabbro, diorite Peridotite, dunite, pyroxenite, serpentinite INTRUSIVE CONTACT INTERMEDIATE TO ULTRAMAFIC METAVOLCANICS<sup>8,j</sup> 1 Unsubdivided dacite, andesite, and basalt 1a Intermediate flows 1b Intermediate pyroclastic rocks 1 Metin Unsubdividual 1 Mafic flows 1c Mafic pyroclastic flows Ultramafic flows 1d 1e Formerly classified as Keewatin. Formerly classified as Timiskaming. Formerly classified as Haileyburian. Formerly classified as Algoman. Includes north-trending dikes of Matachewan swarm. Includes Nipissing and Sudbury types. Includes Kewaenawan b. d. e. f. Includes Keweenawan. g. h. Reveral ages; some units appear to be intrusive equivalents of volcanic for-mations whereas others postdate volcanism. Rocks in these groups are subdivided lithologically; the order does not necessarily imply age relationship within or among groups. Map 3 **Geology Legend** j. P2050 NOTE: All rock types listed in the Legend do not necessarily appear on the map face. Date: February 20, 2019 **Pense Property** Drawn by: M. Hawirko, HT Pense Township, Ontario Checked by: Gino Chitaroni Gino Chitaroni, Don Fudge, File: H18023PenseP2050 Marc Gaudreau

Pense Property Map 3 Preliminary Map Geology Legend



Pense Property Map 3, Geology and Geophysical



Pense Property Map 4, Historical Work Compilation

### LEGEND.

#### PRECAMBRIAN PROTEROZOIC

Mafic Intrusive Rocks (Nipissing)<sup>b</sup> 6 Medium-grained diabase

INTRUSIVE CONTACT

#### Felsic Intrusive Rocks<sup>b</sup> 5

- 5a Medium-grained, pink to gray, syenite
- 5b Medium-grained, green, syenite
- Aphanitic, granitic, buff white to gray, felsite 50
- 5d Mafic, amphibolitized, xenoliths
- 5e Intrusive breccia
  - INTRUSIVE CONTACT
- Metasedimentary Rocks (Huronian Supergroup)<sup>b</sup> 4 4a Conglomerate (Coleman Member)
  - 4b Arkose, wacke (Coleman Member)

UNCONFORMITY

#### ARCHEAN

- Metasedimentary Rocks (Pontiac)b 3
  - 3a Fine- to medium-grained, biotite-quartz-feldspar wacke+ garnet
  - 3b Fine- to medium-grained, staurolite-muscovitegarnet-biotite-quartz-feldspar wacke
  - 3c Carbonaceous, sulphide-bearing argillaceous (interflow)
  - 3d Fine-grained, silica-rich metasediment (chert) 3e Argillaceous
  - Fine-grained matic tuff 3f
  - 3h Laminated to thinly-bedded
  - 3k Chloritic zones
  - 3r Skarnified

#### 2 Mafic Metavolcanic Rocks (Pontiac)b

- 2a Fine- to medium-grained, massive, tholeiitic basalt
- 2b Coarse-grained, black, amphibolite
- Pillowed 2c
- 2d Hyaloclastite
- 2e Albitization "pseudo-varioles"
- 2f Albitization late fractures and joint
- 2k Actinolite fractures
- 2m Garnet-bearing
- 2n Carbonatized
- 2p Biotitic

### Ultramafic Metavolcanic Rocks(Pontiac)<sup>b</sup>

- 1a Fine- to medium-grained komatiitic basalt
- 1b Polygonal jointing
- Tremolite 1c
- Tremolite-chlorite 1d
- 1e Carbonatized
- 11 Biotitic

# This is a field legend.

1

b Rocks in these groups are subdivided lithologically and order does not imply age relationships within or among groups.

### ABBREVIATIONS

#### cp ..... chalcopyrite sp ..... sphalerite py ..... pyrite qv ..... quartz vein po ..... pyrrhotite

#### SYMBOLS

1.7	S1 Foliation (inclined, vertical)	$\bigcirc$	Area of bedrock outcrop
w. w.	S2 Foliation (inclined, vertical)	1	Geological boundary (inferred from diamond drill
1.	Lineation (mineral); with plunge		hole data, outcrop observation and ground geophysical
141	Bedding (inclined, vertical, angle to		surveys)
	diamond drill core axis)		Extent of mapped area (this survey)
0.0	Diamond drill hole collar (inclined. vertical)	15 045	Thin section sample location
	Trench	93.JRP040	Sample location (analysis)

SOURCES OF INFORMATION

Base map derived from digital 1:20 000 OBM topographic maps 17-6000-52900 and 17-6100-52900 (NTS 31M/13E) with minor revisions.

Assessment Files, Resident Geologist's office. Cobalt.

W. Whymark, Tyranex Gold Inc., written and personal communication, 1993.

G. Gereghty, Prospector, written and personal communication, 1993.

Lovell, H.L. and Frey, E.D. 1977. Pense Township. Ontario Geological Survey, Map P.1222.

Geology not tied to surveyed lines.

Pit

Magnetic declination approximately 9"00'W. 1975.

Diamond drill holes T-1-93 and T-2-93 were logged by the authors. Data for the other diamond drill holes were obtained from assessment files. Assay data for T-1-93 and T-2-93 were obtained from W. Whymark, Tyranex Gold Inc.

#### CREDITS

Geology by J.R. Parker and N. Laporte. 1993.

AutoCAD drafting by C. Brophy.

To enable the rapid dissemination of information, this map is **unedited**. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Users should verify critical information.

issued 1994.

Information from this publication may be quoted if credit is given. It is recommended that reference be made in the following form:

Parker, J.R. and Laporte, N. 1993. Precambrian Geology of the Pense Township Zinc Occurrence; Ontario Geological Survey, Preliminary Map P.3247, Various scales.

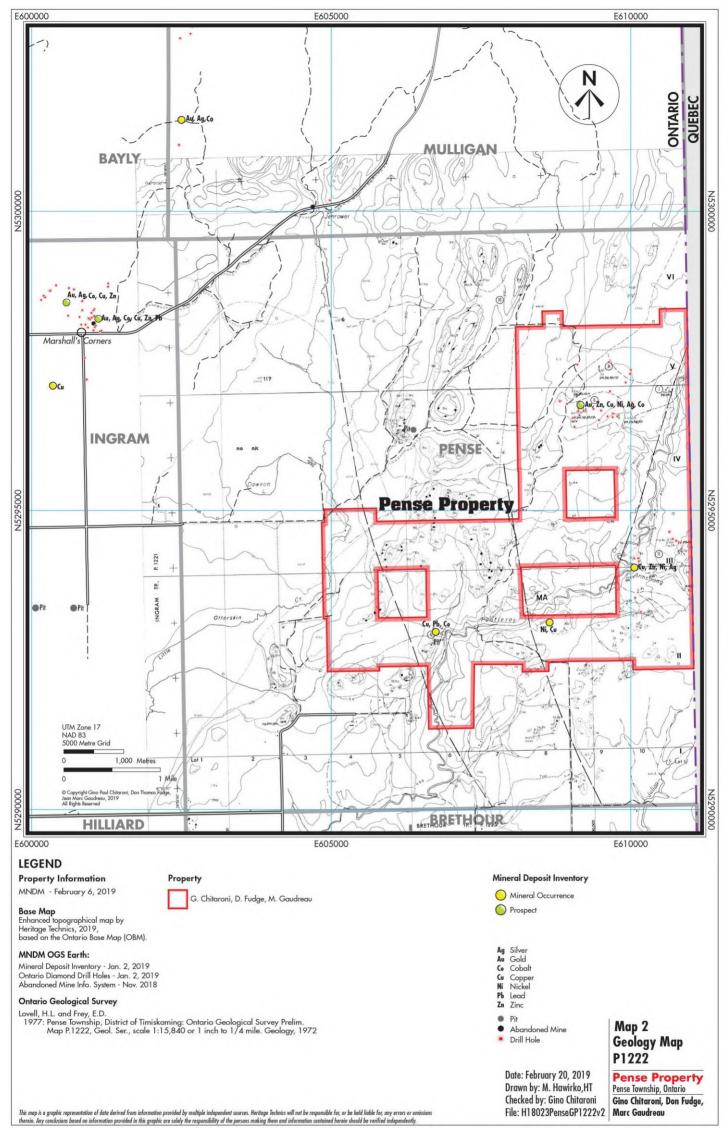
### Map 4 **Geology Legend** P3247

Date: February 20, 2019 Drawn by: M. Hawirko, HT Checked by: Gino Chitaroni File: H18023PenseP3247

**Pense Property** Pense Township, Ontario Gino Chitaroni, Don Fudge, Marc Gaudreau

Pense Property Map 4, Geological Legend





Pense Property Map 2, Geology Map

### LEGEND

QUA	ZOIC		AgSilver
			asb Asbestos
	TERNARY LEISTOCENE AND RECENT		bnBornite carbCarbonate
	T II varved clay, sand,	nraval neat	Co Cobalt cp Chalcopyrite
			gfGraphite
	UNCON	FORMITY	gn
PALEO			WATER WEL
	RIAN (LOWER AND MIDDLE)		
13	Themoe (Clinton) Formation 13 Limestone, dolostone	sandstone	bldr Boulder cgl Conglomerate
	Nab Formation		csnd Coarse-grained sand fsnd
• • 2	12 Limestone, shale		grvi Gravel
	DISCONFORMITY O	RPARACONFORMITY	San ale the
0.00			PROPERTY (no
	OVICIAN IMIDDLE AND UPPER SKEARD GROUP	х.	Armstrong Township (P,1223)
	Dawson Point, Farr, Bucke, Guige	es Formations	(1) Belanger, P. Brethour Township (P.1225)
11	11 Limestone, shale, sands		(2) Brethour Tp. concession I lot
	UNCON	FORMITY	<ul><li>(3) Dominion Gulf Company Ingram Township (P,1221)</li></ul>
DOCCAND			(4) Marshall, F.D. and Marshall, J
PRECAMBI	RECAMBRIAN		(5) Peerless Canadian Exploration
MAFI	CINTRUSIVE ROCKS (KEWEE)	NAWANI	SOURCES
10	10 Augite and obview 1 ab	ase	Geology by H.L. Lovell, and E.D. Fr
	CINTRUSIVE ROCKS (N-PISSI)	26	Assessment work and additional reports a Base-maps derived from maps of the Fore
9	9 Unsubdivided		of Natural Resources, with modification
		"exture diabase), minor granophyre and aplite	
8	8a Quartz diabase of or re-	1	Water well data from the Ontario Wate ment), 1972.
	8b Hypersthere fature to	wulding norite)	Burrows, A.G. and Hopkins, P.E., Bland
	INTRUSICE	CONTACT	1922 and ODM Map 31b, 1922. Dominion Dept. of Agriculture, Map 2
HURC	NIAN SUPERGROUP		1955. Magnetic declination, approximately 9°00
со	BALT GROUP		This map is published with the permission
	Gowganda Formation Firstbrook Member		of Mines, Ontario Ministry of Natural Re
7	7 Argilite (bouders		Issued 1977
	Coleman Member		Information from this publication may b
6	6a Conglomerate		of Natural Resources, Division of Mines ence to this map be made in the following
	6b Quartz tic arkins grevia 6c Argillite	zacke	Lovell, H.L., and Frey, E.D.
			1977: Pense Township, District of
	/ NCONF	ORMITY	Map P.1222, Geol. Ser., sca
	PRECAMBRIAN TARCHEAN		Metric Conversion Factor 1 foot ~ 0.3
r1	CINTRUSIVE ROCKS (MATACH	HEWAN)	
5 FELS	5 Diabase IC INTRUSIVE ROCK STALGOM	AN	
4	4a Granitic rocks		
	4b Syenite		
	INTRUSIV	ECONTACT	
MAFI	C TO ULTRAMAFIC INTRUSIV	E ROCKS (HAILEYBURIAN) AND	
	BLEEXTRUSIVE		
3	3a Serpentinite		
	3a Serpentinite 3b Gabbro and diorite		
	3b Gabbro and diorite	OR DISCONFORMITY	
3	3b Gabbro and diorite		
3	3b Gabbro and duorte INTRUSIVE CONTACT C AND INTERMEDIATE METAV		
MAFI	3b Gabbro and dupite INTRUSIVE CONTACT CAND INTERMEDIATE METAV 2a Mafic to intermediate to 2b Iron formation, magnet	/OLCANICS (KEEWATIN) uffs and flows and chiorite schist ite cherty tuff, carbonaceous sulphide-bearing	9
 MAFI	3b Gabbro and duprite INTRUSIVE CONTACT C AND INTERMEDIATE METAS 2a Mafic to intermediate to 2b Iron formation, magnet schists and pyroclastic	VOLCANICS (KEEWATIN) uffs and flows and chlorite schist ite cherty tuff, carbonaceous sulphide-bearing is	3
3 MAFI	3b Gabbro and duprite INTRUSIVE CONTACT C AND INTERMEDIATE METAS 2a Mafic to intermediate to 2b Iron formation, magnet schists and pyroclastic	/OLCANICS (KEEWATIN) uffs and flows and chiorite schist ite cherty tuff, carbonaceous sulphide-bearing	9
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3 MAFI 2 META	3b Gabbro and duonte INTRUSIVE CONTACT CAND INTERMEDIATE METAX 2a Mafic to intermediate to 2b Iron formation, magnet schists and pyroclastic UNCONFORMITY OR CONTAC SEDIMENTS (PONTIAC) 1 Unsubdivided 1a Quartz biotite schist, gn 1b Mica-quartz feldspar sta	VOLCANICS (KEEWATIN) uffs and flows and chlorite schist ite cherty tuff, carbonaceous sulphide-bearing is CT METAMORPHIC ZONATION teiss te, greywacke D MINING SYMBOLS	9
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#### METAL AND MINERAL REFERENCES

hem Hematite
mag Magnetite
poPyrrhotite
pyPyrite
gcvQuartz-carbonate vein
qvQuartz vein
sp

#### L ABBREVIATIONS et)

Boulder					dr
Conglomerate					
Coarse-grained sand		,			nd
Fine-grained sand			,	,	nđ
Gravel					vI.

hpan .			.,	+								. Hard pan
Imsn .												.Limestone
msnd.					1	M	ec	ti	u	m	-0	rained sand
qsnd .												.Quick sand
snds .												Sandstone

# Y LIST (for P.1220-P.1225) ow mostly Crown Land)

Pense Township (P.1222) (6) Armstrong-Cummings (7) Canadian Nickel Company Limited (8) Gereghty, G.J. and Waddell, L.A. (9) Hudson Bay Mines Limited, The (10) Johnston, R.F. (11) Wabi River Mining Syndicate

J.A. ns Ltd.

#### OF INFORMATION

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f Timiskaming; Ontario Geological Survey Prelim. ale 1:15,840 or 1 inch to ¼ mile. Geology, 1972.

3048 m.

# Map 2 **Geology Legend** P1222 ate: February 20, 2019 rawn by: M. Hawirko,HT necked by: Gino Chitaroni

Pense Property Pense Township, Ontario Gino Chitaroni, Don Fudge, e: H18023PenseP1222 Marc Gaudreau

# Pense Property Map 2, Geology Legend

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