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Year 2020 Diamond Drilling Program Report

On The

Grenfell Property

Larder Lake Mining Division District of Timiskaming Province of Ontario

For

Pelangio Exploration Cedar Hill Connaught, Ontario

Part I of II

.

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Jan.10, 2021

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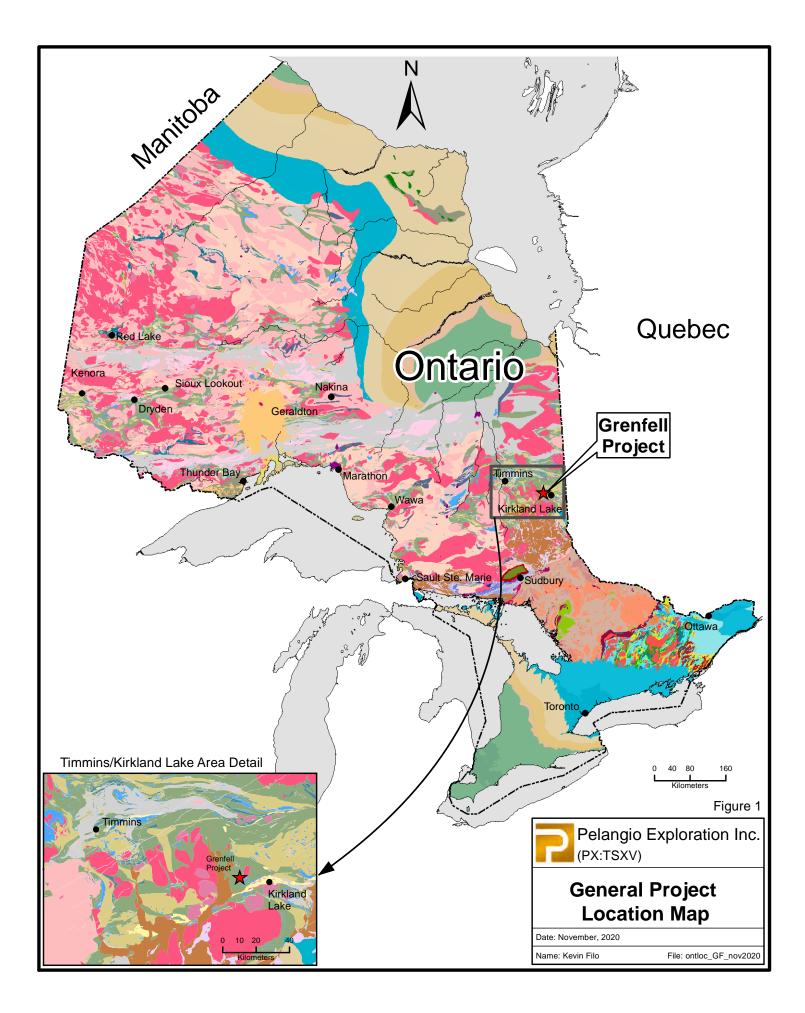
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Summary:

Two campaigns of drilling were completed on Pelangio's Grenfell Property; these programs were carried out in early 2020, and the fall of 2020. Due do logistics issues the initial program was a helicopter supported diamond drill program mobilized from the village of Sessikenika Ontario. The second program utilized a mobile unitized drill rig mobilized from access roads and trails north of the Macassa Mine headframe in Kirkland Lake Ontario. Field operations including mobilization and demobilization were conducted from Dec. 20/2019 to Feb. 3/20 and Sept.14/2020 to Sept. 24/2020 for the 1st and 2nd programs respectively. Planning and supervision of both drill programs was carried out under the direction of J.Kevin Filo, P.Geo. The drilling contracts were both completed by NPLH Drilling from Timmins Ontario and all helicopter support for the 1st program was from Expedition Helicopters from Cochrane Ontario. All core logging and sampling for the program was completed Feb.15/2020 and Oct. 26/2020 for the 1st and 2nd programs respectively.

The purpose of the first phase of drilling in early 2020 was to follow up on historical drill intercepts from the 1930-1940 era on the northwesterly trending No.6 Vein as well as an intercept from SGX Resources recently discovered SW target. During the 1st program 684 meters of drilling was completed in 8 drill holes. The 2nd phase of drilling was conducted to follow up on the strike extension of No.6 Vein as a result of extremely positive results from the 1st phase of drilling. Holes JS2013 and JS2014 targeted the strike extension and down dip of the No.6 Vein. The 2nd phase of drilling also targeted two other northwesterly trending structures in light of the initial success on the No.6 Vein, the other two structures were the historical Shea Vein and the Central Target, tested with holes JS209 and JS2010 respectively. A single hole (JS2011) was also drilled to test the historical No.1 Vein which was reported to have returned 0.2 oz of gold over 3 feet for 180 feet of strike length in a development drive of the 250 level (J. Londry P.Eng., 1985). During the 2nd phase of drilling 540 meters of drilling was completed in 5 drill holes. The target areas and collar locations for both the 1st and 2nd phase of drilling can be seen in the accompanying Fig. 7.

During the course of the program there was very limited environmental impact as only a few trees were cleared and access was generally along established trails. Once a hole was completed casing was left in the hole and the casing capped and flagged with a metal red flag attached to the cap.

Geographic control points with respect to the property boundary and actual hole location were determined using a hand held Garmin GPS unit. The property map datum utilized was Nad 83 Zone 17.

The best intercepts obtained from the 1st phase of drilling were obtained in a fan of holes designated JS2004, JS2005 and JS2006 on the No.6 Vein target. Hole JS2004 returned 2.5 g/t Au over 26 m with a higher-grade intercept assaying 9.39 g/t gold over 3.0 meters. A broader mineralized zone from JS2005 assayed 1.32 g/t gold over 26 m when a high-grade intercept of 1810 g/t gold over 30 cm was cut to 34.28571 g/t gold. Hole JS2006, returned a short interval of 26.50 g/t gold over 0.32 m prior to being lost in



historical workings. No significant results were obtained on follow up holes (JS2007 & JS2008) on the SW target. (see Fig. 7 &7A)

In the 2nd phase of drilling the best intercepts were obtained in Hole JS2013 and JS2014. Highlights from JS2013 included a new vein intercept in the hanging wall of the No.1 Vein which returned 10.95 g/t gold over 3 meters. Hole JS2014 intersected two mineralized intercepts in the hanging wall of the No.1 vein which assayed 1.45 g/t Au over 9 meters and 1.76 g/t Au over 4.5 meters with some higher grade intercepts of 4.02 g/t Au over 1.1 m and 3.46 g/t Au over 1.5 m respectively.

Full details on assay highlights can be found in the accompanying Table 2; detailed conclusions and recommendations for further work are found in the latter portion of this report.

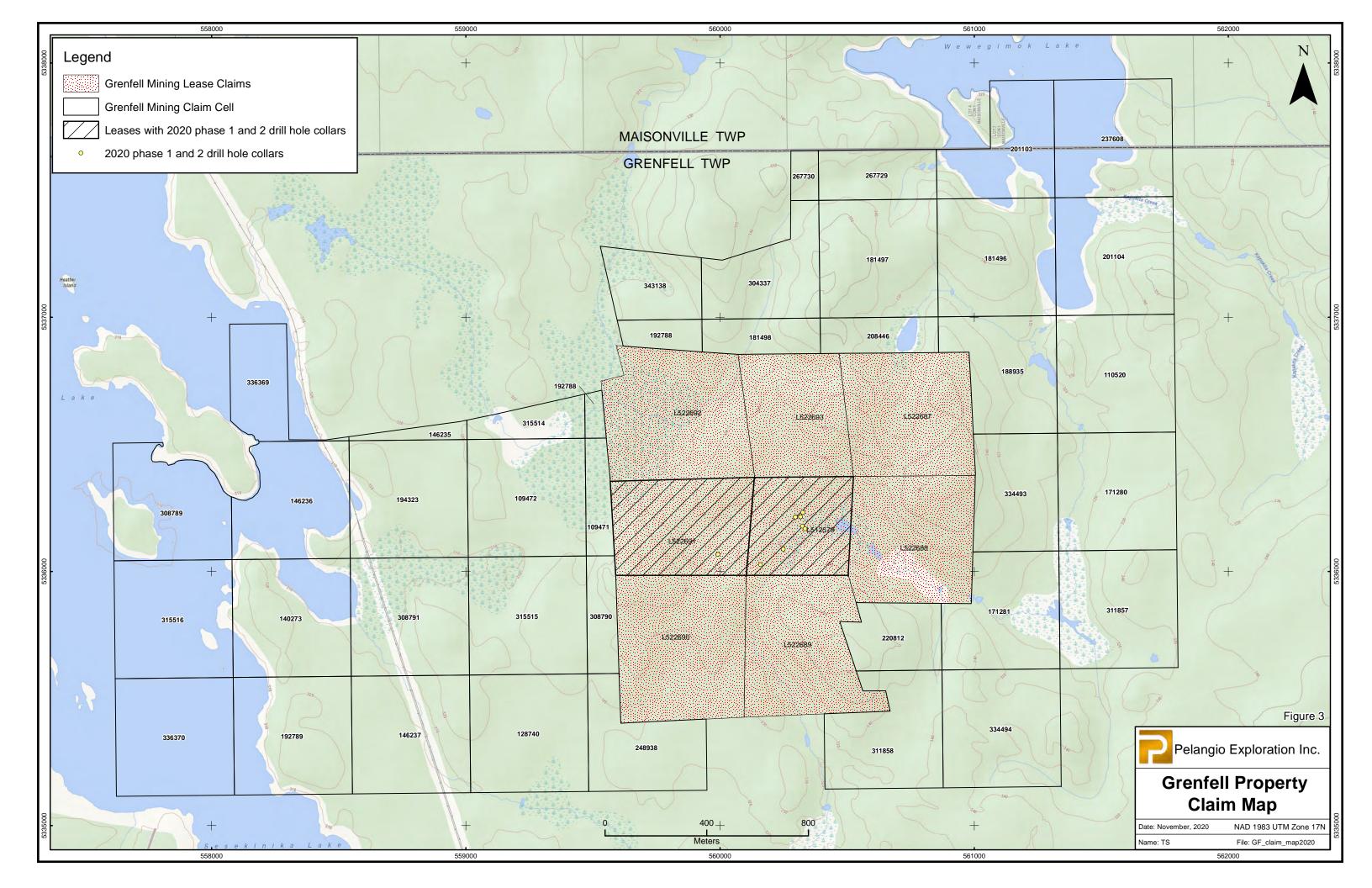
Introduction and Terms of Reference:

The author was retained by Pelangio Exploration (Pelangio) to prepare an interim technical geological report to document the recent diamond drill programs completed by Pelangio in 2020. This report will discuss work programs carried out on the Pelangio Grenfell Property as well as results and recommendations. The Pelangio Grenfell Property covers approximately 6.7 square km of prospective land in Grenfell Township, located approximately 15 road km northwest of Kirkland Lake, Ontario. (Fig.1,2,3). The purpose of this report is to fulfill assessment requirements of the Government of Ontario and for internal corporate records.

The 2020 1st and 2nd phase drill programs conducted by Pelangio were designed, implemented and supervised by the author of this report. The author is VP Corp. Development for Pelangio and holds a substantial share position in Pelangio; consequently, the author is not independent of the company.

The majority of reference data used in this report was taken from private files obtained from the Sirola family records. The Sirola family has been directly and indirectly involved in the property since the 1930's. The author also referenced some assessment reports, and OGS regional airborne data, and regional geological reports.

The 1st and 2nd phase drill programs together consisted of 1224 meters of drilling (13 drill holes). The 1st phase drill program was designed to follow up on historical intercepts and a more recent intercept by SGX Resources on the historical No.6 Vein. Also, two holes from the 1st phase program were laid out to follow up on the SW target, a new zone discovered by SGX Resources in 2012-2013. The 2nd phase of drilling was primarily focused on extending the strike extension of the No.6 Vein to the SE as a result of the positive results obtained early in 2020. Holes JS2013 and JS2014 targeted the strike extension and down dip extension of the No.6 Vein. The 2nd phase program also targeted two other NW trending targets, the Shea Vein (DDH JS2009) and the Central target (DDH JS2010) as a result of positive results obtained on the NW trending No. 6 Vein. A single hole (DDH JS2011) also drill test the historical NE trending No.1 Vein. In all instances the drill holes targeted potential zones of high-grade mineralization and associated broad zones of lower grade mineralization. The target areas and collar



locations for both the 1st and 2nd phase of drilling can be seen in the accompanying Figure 7.

A brief summary of the program results were discussed in the previous summary section of the report; a more detailed account of results are documented in the following sections of the report along with further recommendations.

Property Description and Location:

Location:

The Pelangio Grenfell Property is located within Grenfell Township or approximately 15 road km northwest of the Town of Kirkland Lake Ontario in the Larder Mining District (Fig.1,2,3).

Property Claims and Status:

The Grenfell Property is controlled 100% by Pelangio Exploration; subject to various underlying royalties. The property is comprised of eight mineral leases and 40 claim cells. The property boundary along with all leases and claims cells with their corresponding reference numbers can be seen in accompanying Figure 3. In 2012 the eight mineral leases had been renewed for another 21 year period and thus the only maintenance necessary on the leases is the annual payment of taxes which are paid by Pelangio as required. There is substantial assessment reserve on the minerals leases to apply to adjoining claim cells so as to maintain them in good standing for a number of years to come. At the time of writing the claim cells were in good standing until the year 2024. The total estimated area of the Grenfell Property is approximately 6.7 sq km.

Environmental Considerations and Permitting:

The Grenfell Property has been explored since the early 1930's and has had some limited gold production. This production was from bulk sampling in an underground stope and a surface trench, this work is historical and carried out prior to the current lease. The bulk sample material was not processed on site, as there were no milling facilities or accompanying tailings. At present there is shaft to a depth of 265 feet and there is some development work on the 150 foot and 250 foot levels. A waste pile of rock taken from excavations is located proximal to the current shaft location. (563079E 5336192N, Nad-83, Zone 17). The Ministry of Northern Development and Mines has fenced in the collar of the old shaft for safety reasons. Exploration activities since the 1930's to the present day consisted of prospecting, trenching and diamond drilling. Historical work to date appears to have had very limited environmental impact and disturbances to the environment are considered minimal.

All mineral exploration work in Ontario requires and exploration permit. Permits for early stage exploration work such as line cutting, geophysics and diamond drilling are obtained in a reasonable length of time. All exploration work requires consultation with First Nations prior to application for a permit. The permit number for the recent exploration work conducted on the Grenfell Property is PR-19-000179.

Accessibility, Climate, Local Resources, Infrastructure, and Physiography:

Access to the Grenfell Property via a northern route is provided by the Sesekinika village access road which branches off Provincial Highway 11. Upon reaching the extreme eastern extremity of the village a person would continue west on the main road from the village for approximately 1 km. to a fork in the road about 100 m. beyond a wooden bridge. At the fork in the road access is gained by turning on to an ATV road heading in a SE direction for approximately 2km; at this point the original fenced in shaft collar iS visible. A series of old logging roads and trails cross the property allowing general access to the entire property. Alternate access with heavy equipment such as drill can be obtained through a series of old logging roads and trails north of the Macassa Mine as shown in the accompanying access map shown in Figure 2. The western extremity of the property along the shore of Sesekinika Lake is crossed by the Ontario Northland Railway; this is an alternate access as well.

The main town proximal to the property is the Town of Kirkland Lake. Kirkland is a significant mining town with accommodations, restaurants and various supply and machine shops. The town also has a skilled work force for both mining and mineral exploration.

Grenfell Township is located is a few miles south of the height of land in Northern Ontario. The main drainage in the area is the Blanche River and tributaries of Engelhart River. Kapatika Creek drains the northeast part of Grenfell Twp. into Sesekinika Lake. This creek links Armer, Wewegimok and Kapatika Lakes. At the northwest end of Sesekinika Lake the Blanche River runs south to Kenogami Lake then leaves the area at the Southeast corner of Grenfell Twp. (ODM Report 30, Grant, J.A.)

The author observed the Grenfell Property has moderate to locally rugged topography composed of rocky knolls covered with glacial till and gravels interrupted by low lying cedar and alder swamps. Substantial portions of the property have been logged off over the past fifteen years and thus in many area trees are not mature. Most of the more recently planted areas have jack pines, but in areas that have not been logged there are also birch and poplar as well as jack pines.

Climate is typical of northeastern Ontario with below freezing temperatures (-5 to -40 degree Celsius) from November to April and brief periods of hot weather in the summer from 10 to 30 degrees Celsius. Precipitation averages 80 cm per year, with a substantial portion in the form of snow averaging 2.4 m. per year. General exploration is restricted to the month of June to September, when the ground is not covered by snow. However, drilling and geophysical work can be carried out in the winter months when a thick snow pack improves access to otherwise swampy areas. (ODM Report 30, Grant, J.A.)

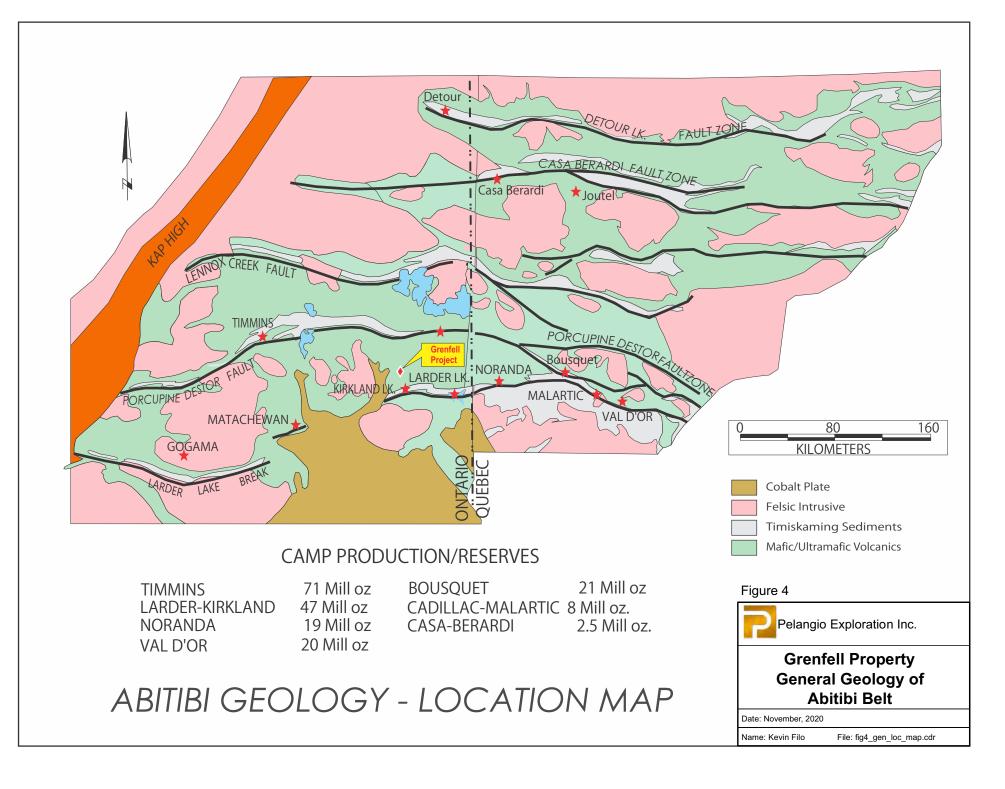
History:

As stated previously there has been substantial historical exploration work on the current leased claims since the early 1930's. A historical account of the work conducted on the property is documented in a private report in 1980 by John Sirola. The bulk of this section is taken from the Sirola report to about 1980. Beyond this the author references

a number of other private reports obtained from the Sirola family as documented below:

- In 1932 Woodward-Kirkland Syndicate sank a 60 foot shaft on a narrow high grade gold bearing quartz vein. This shaft is currently located at 563079E 5336192N Nad 83 Zone 17 on Lease Claim L512579 or roughly L0, BL0 of the last grid cut on the property by SGX Resoruces.
- In 1933 Woodward-Kirkland deepened the shaft to 265 vertical feet and established levels at 150 and 250 foot horizons. In 1934 Kirkland Consolidated took over the project and staked 12 claims to surround current claim L512579.
- Kirkland Consolidated conducted underground exploration work on the property from 1934 to 1935. By the time that underground exploration ceased development consisted of a station on the 150 foot level and development on the 250 foot level. Development on the 250 foot level consisted of 800 feet of drifting along with 1300 feet of crosscutting. Further, a total of 3270 feet of underground drilling and 2886 feet of surface drilling had been completed.
- In 1937 the property was leased by Donald E. Sirola, for two years. D. Sirola excavated a trench 30 by 7 by 6 feet from August to December of 1938. A bulk sample was taken and some ore shipped for processing.
- In September of 1938 Kiryan Gold Mines Ltd was formed to take over from Kirkland Consolidated Mines Ltd. Some limited diamond drilling was completed from 1939 to 1940.
- In 1941 D.S. Baird and T.M. Church leased the property to prospect it for tungsten after a government geologist documented an occurrence of tungsten with the gold veins in mid 1941. Baird and Church also dewatered the shaft and carried out 15 feet of drifting and 14 feet of crosscutting. A total of 177 tons of bulk sampling was completed and shipped for processing.
- In 1942 the Toburn Mining Co. of Kirkland Lake is reported to have dewatered the shaft and sampled the underground workings, no record of the results of this work has been found.
- In 1959-1960 the claims covering the shaft area were restaked but there is no record of any exploration completed.
- In 1978 John Sirola staked a single unit claim to cover the area surrounding the current shaft and in 1979 seven additional claims were staked, these claims now comprise the leased claims controlled by Pelangio. In 1980, J. Sirola dewatered the trench proximal to the shaft and remapped and sampled the trench. Sirola confirmed significant gold values in the trench and observed visible gold.

- In 1982, R. Benner, P.Eng., and John Sirola, P.Eng completed a geological map covering the current leased claims. This map provided a good basic geological picture but more importantly it documents a numerous old trench and pit locations outside of the shaft area. No sampling information on these historical pits were available.
- In 1985 John E. Londry, P.Eng. conducted an independent review of the property for John Sirola. Londry calculated a small resource which is now deemed historical by current NI 43-101 standards. Londry, utilizing chip sample data from the 250 level records calculated 3200 tons @ 0.64 oz. per ton Au on what was designated the No.1 vein. Similarly, he utilized chip sample data from surface trenching to calculate a tonnage of 500 tons @0.57 oz per ton Au; this surface vein was designated the Sirola Vein. (splays from No 1 vein) Together these two veins were deemed to contain 2305 oz of gold in the probable category. A calculation was also done on a vein designated the No. 6 Vein, a northwesterly trending vein associated with a porphyry. From a series of drill holes Londry calculated 6100 tons @0.54 oz. of gold per ton or 3295 oz. of gold in the possible category. (Londry, J, 1985)
- In 1987 Neighbors Resources optioned the property from J. Sirola and completed 3974 feet of drilling in the vicinity of the shaft. A summary report on this work was completed by H. Dowaluck. Dowaluck, noted that there was substantial low grade gold mineralization associated within the wall rock of the high grade veins. Consequently, he recommended re-sampling of all the Neighbor's Resources core to evaluate the bulk tonnage potential of the project. Some of the best intervals reported by Dowaluck included 0.084 oz./ton over 65.7 ft. and 0.079oz./ton over 42 feet. Some of these intersections were supported by high grade intercepts. Dowaluck, recommended that Neighbors Resources core be sampled from top to bottom to better evaluate the property for bulk tonnage potential; this work was not completed. (Dowaluck. H. 1988)
- In 1990 Gold Fields Canadian Mining Limited examined and sampled some of the Neighbors drill core during the course of a property evaluation. Values ranging from a few ppb Au to 0.159 oz /ton gold were obtained. No further work was conducted by Gold Fields. (Montgomery, K., 1990)
- In 1995 Otis J Exploration conducted some mapping and sampling work through and option agreement prior to a related company, Sedex Mining Corp continuing the exploration efforts in the same year.
- In 1995 the property was optioned by Sedex Mining Corp. Work on the property
 was comprised of line cutting to facilitate magnetic and induced polarization
 surveys as well as some geological mapping and sampling in the immediate
 shaft area (Lease Claim 512579). A seven hole drill program of 953 meters was
 completed to follow up on some of Dowaluck's observations and partially
 evaluate some geophysical targets. The best result obtained in this program was
 2.62 g/t Au over 13.72 meters. (Filo, J.K., P.Geo, Sedex Mining Report 1995)



- In mid 2012 Mrs. Gladys Sirola sold the original eight lease claims to 2090720 Ontario Inc, 2229667 Ontario Inc and Shoreacres Explorations Ltd. At this time a compilation of all historical drilling information was completed by J.K. Filo, P.Geo., to facilitate future exploration related to historical targets.
- In August of 2012 SGX Resources optioned the original leased claims and reestablished a survey control grid on the property to facilitate geophysical and geochemical surveys. Initial survey work outlined a number of new targets as well as historical targets for follow up. SGX Resources outlined some interesting gold values in what was designated the SW and SWS targets (Historical holes JS1302 and JS1303). Two SGX holes also tested the historical No.6 Vein. A single hole JS1312 intersected 19.5 g/t gold in association with a broad low grade mineralized zone as shown in Figure H1. (Filo, J.K., P.Geo SGX Resources, 2013)
- Through a series of corporate transactions a 100% interest in the property was acquired by Pelangio Exploration in order to facilitate the drilling programs conducted in the year 2020 detailed in the current report.

Geological Setting:

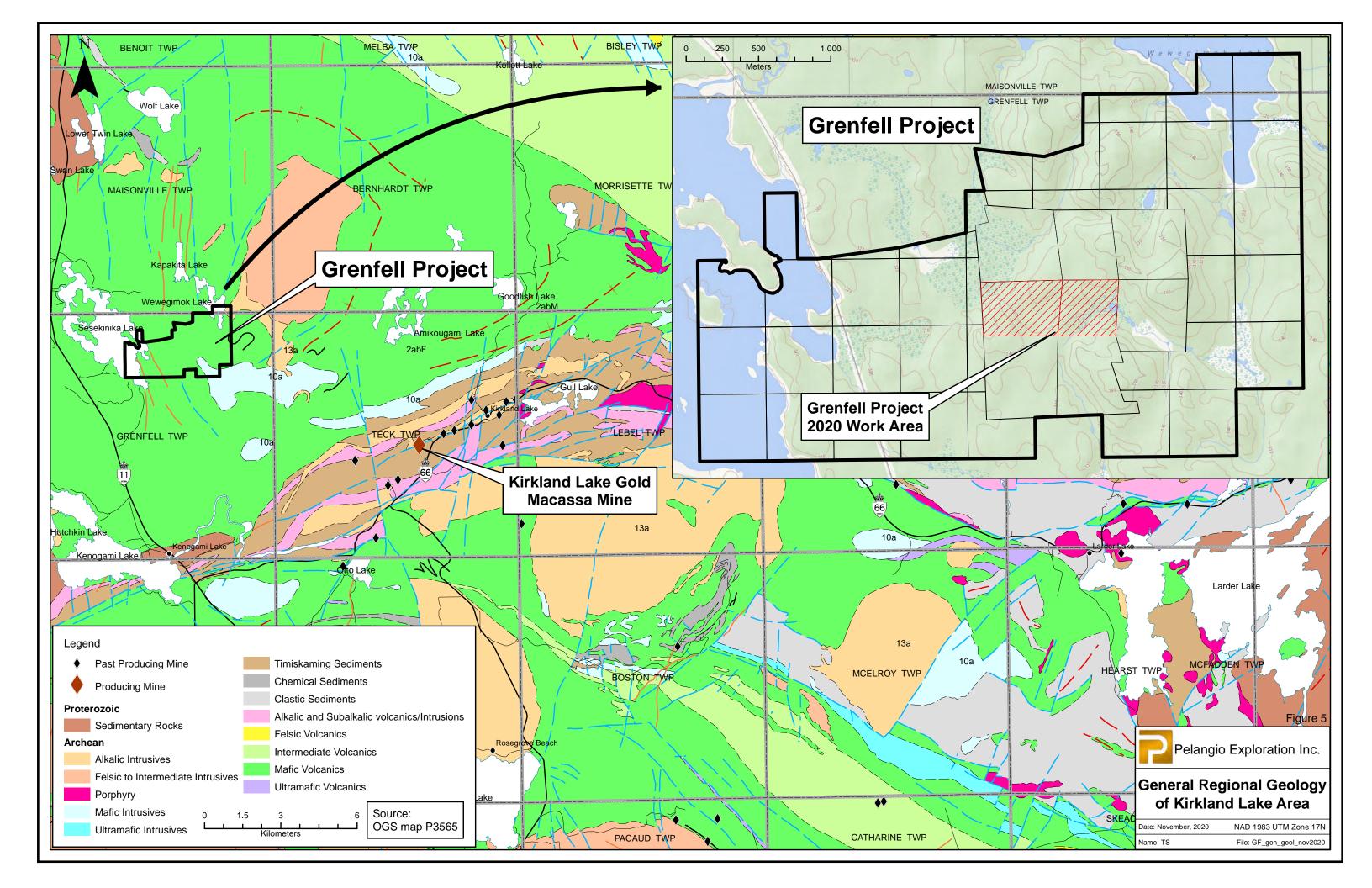
Regional Geology:

The Grenfell Prospect is located in the Abitibi Geenstone Belt of the Superior Province of the Canadian Shield. The Abitibi Greenstone belt is a large granite-greenstone terrain some 150,000 km² in area extending from Lake Superior in north-central Ontario through into north-central Quebec. Measuring 750 km long by 200 km wide, the Abitibi Greenstone belt is the largest greenstone belt within the Canadian Shield. (see Fig. 4)

Metamorphic grade varies from greenschist to lower amphibolite facies. Recent U-PB Zircon geochronology has shown that the volcanic-sedimentary pile accumulated in three major cycles over a period of 50 million years. Most of the volcanic activity is interpreted to have occurred between 2730 and 2700 Ma (Corfu et al, 1989). The Abitibi Greenstone belt is the most prolific Archean terrain in terms of copper-zinc sulphide mineralization and gold mineralization.

Major east and northeast trending faults (Destor Porcupine Deformation Zone Cadillac-Larder Deformation Zone), were active throughout the main periods of volcanism, and became the focus of a late period of alkaline volcanism and sedimentation between 2680 and 2677 Ma. These deformation zones are the focus of most of the major gold deposits found within the Timmins, Kirkland Lake, and Holloway gold camps. In excess of 120 million ounces of gold has been produced from mines associated with these two major structures.

The Abitibi Belt has been grouped into a series of stratigraphic groups. In the Kirkland Lake Area there are two basic supergroups that have been designated as the Upper and Lower Supergroups which have been intruded by younger granitoid instrusives. In the main Kirkland Camp the bulk of production comes from the upper most group (Timiskaming Group) of the Upper Supergroup in association with granatoid intrusives



and the Kirkland Larder Lake Break. The Larder Lake Break and associated rocks are present in the extreme SE part of Grenfell Township. However, the vast majority of Grenfell including the subject property is covered by Kinojevis Group rocks or the bottom stratigraphic package of the Upper Supergroup. (Jensen, L.S., 1986)

In the early 1960's a geological mapping programs was completed over all of Bompas and Grenfell Townships by the Ontario Department of Mines (Geological Report No.30) under the direction of J. Grant. This mapping program covered all of the current leased and staked claims. The ODM map showed the NW portion of Grenfell Twp including the subject property to be underlain by volcanic rocks ranging in composition from basalt to dacite. Grant, remarked that there were a number of gabbroic intrusives as well which are very evident from historical property scale mapping on the subject property. In many instances it was difficult to discern some of the coarse flows from gabbroic intrusives due to a lack of contact relationships. (Grant, J., 1960)

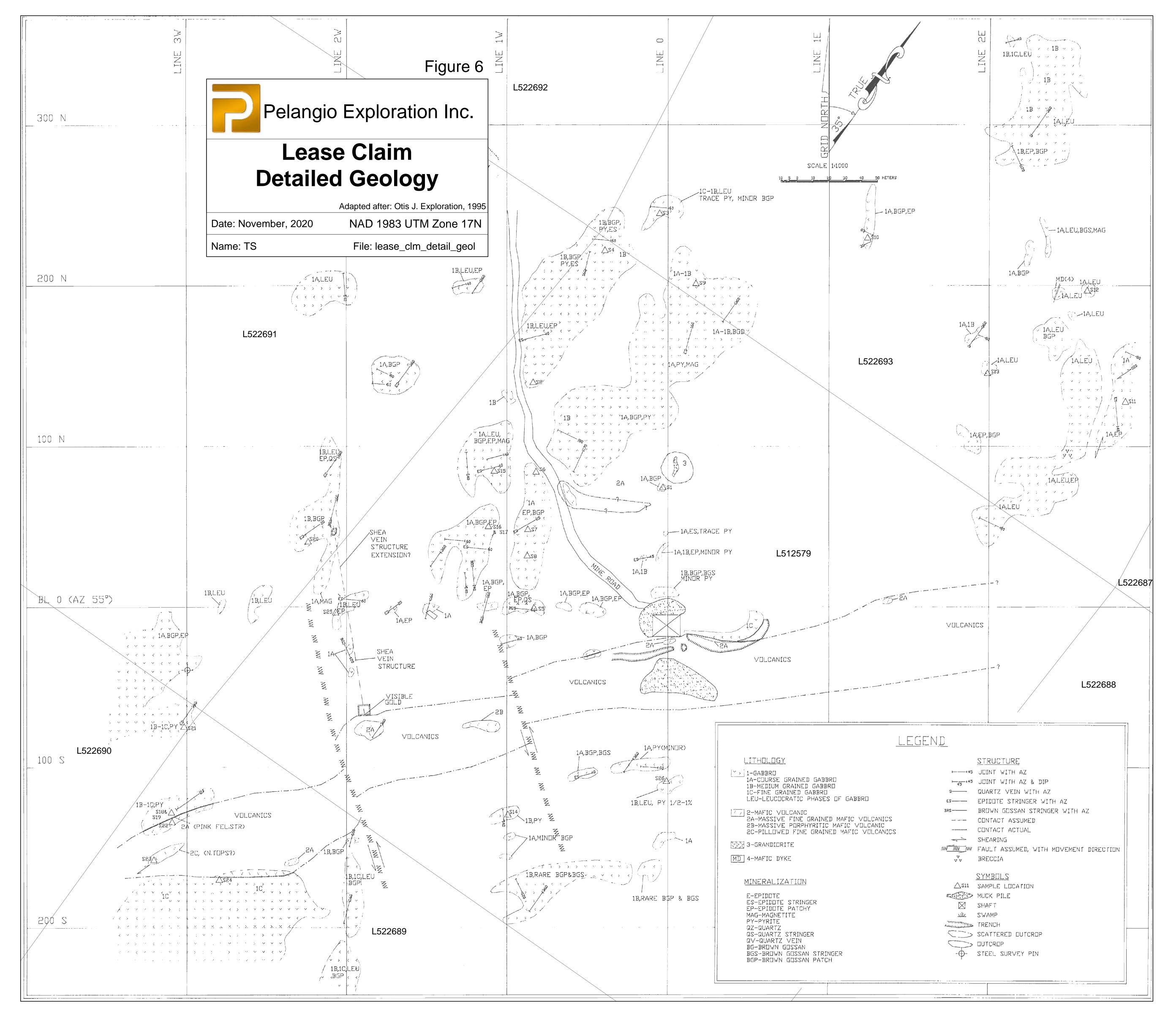
Property Geology:

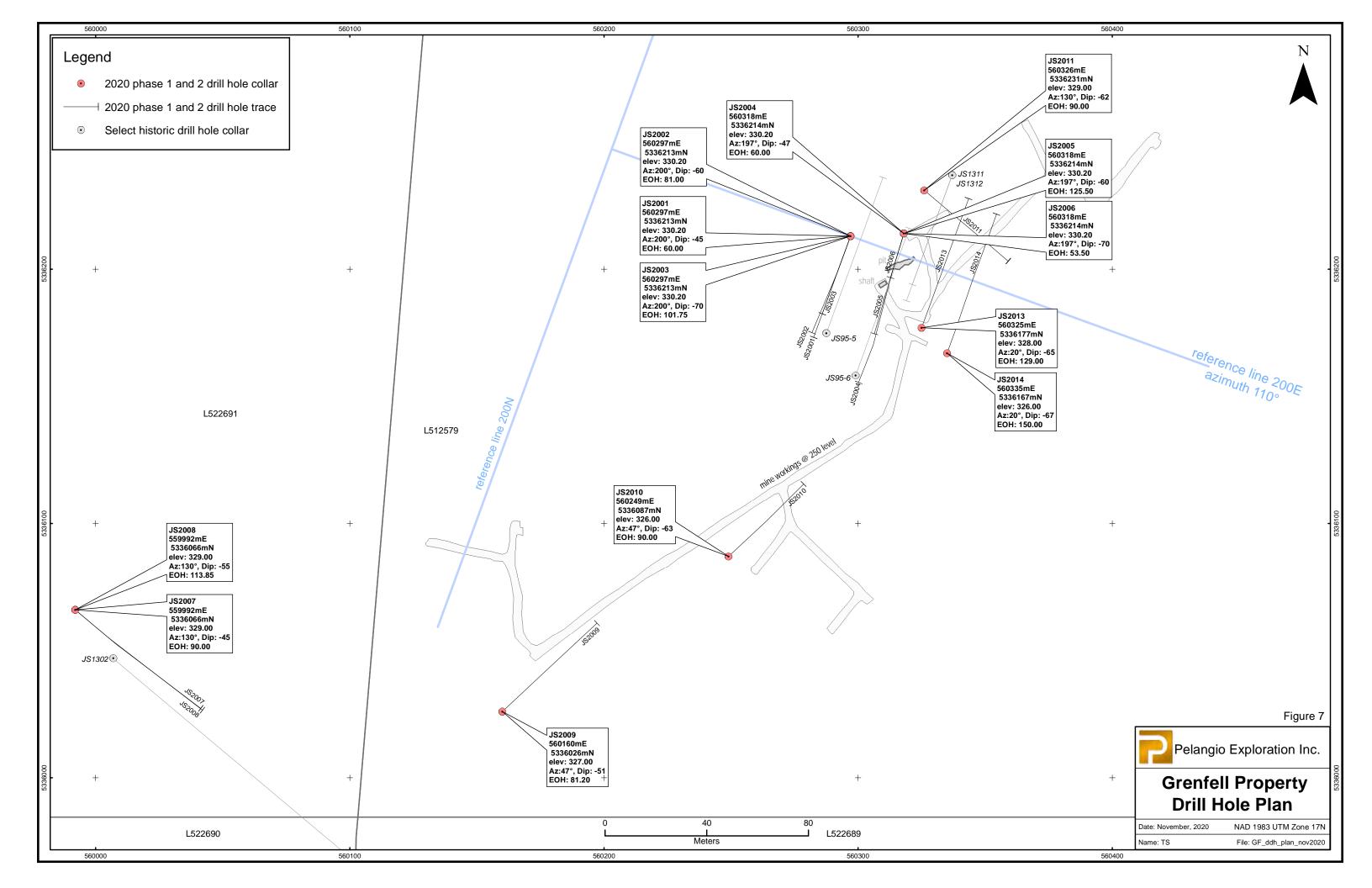
The original leased claims were mapped by Benner, R., P.Eng in 1981. Benner's map shows the extreme NE leases (522687 and 522688) to be underlain by volcanics ranging in composition from basalt to dacite. The same volcanic package forms a narrow wedge extending from lease claims 522687 & 522688 across the central portion of lease 512579. Similar volcanics cover the extreme NW portion of the property, mainly lease 522692 and a small portion of lease 522691. The rest of the property is covered by gabbroic intrusive. A more detailed geology map of the leases surrounding the shaft was completed by J.K. Filo, P.Geo for Otis J Exploration in 1995. This map compliments the earlier work conducted by Benner In 1981. A copy of the Otis J map can be seen in accompanying Figure 6.

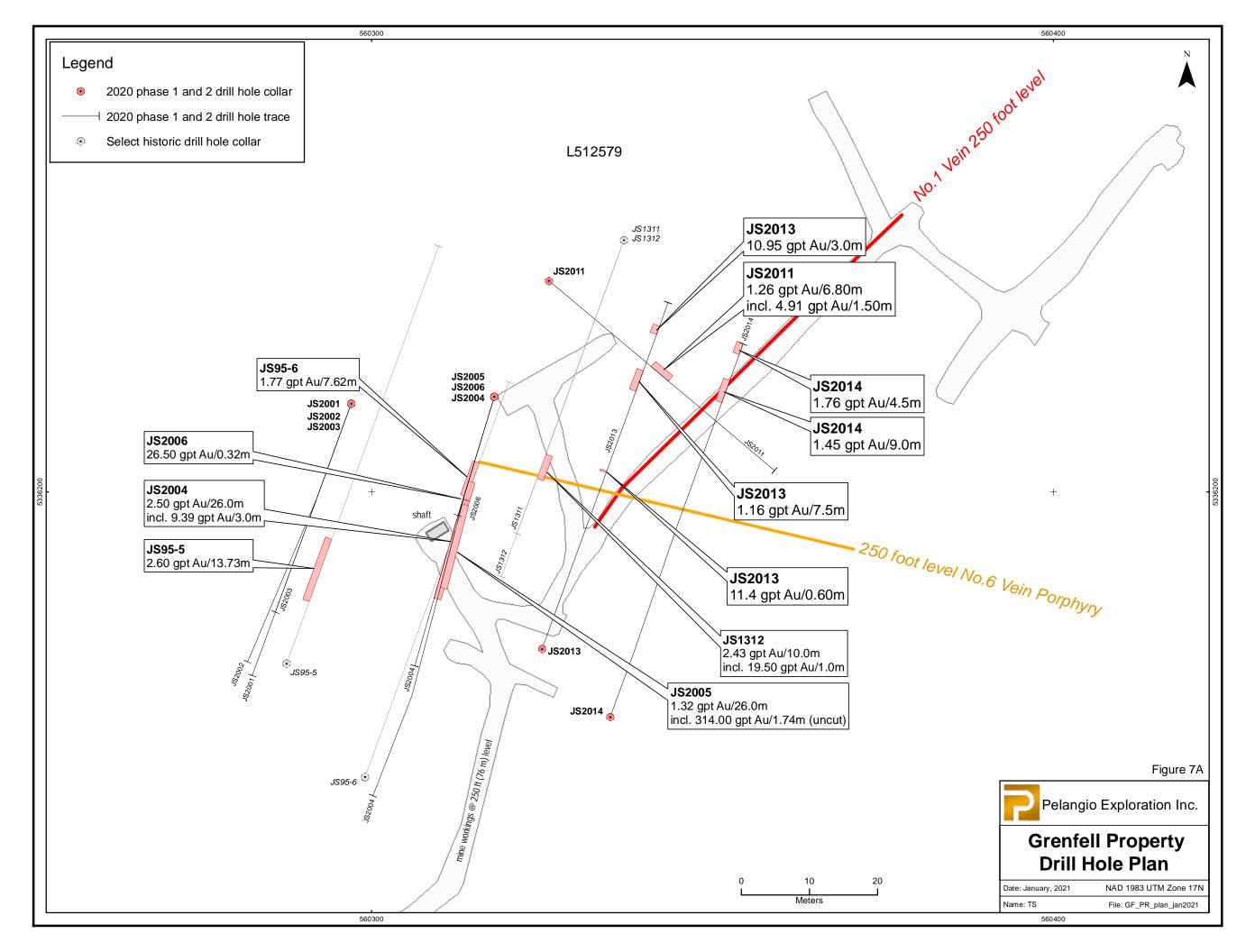
The primary structure on the property is a shear zone with splays in the immediate vicinity of the shaft (approx BL 0, L 0 on the 2013 SGX grid). This shear trends at approximately 045 degrees azimuth and hosts the No.1 Vein (and associated splays) with a similar azimuth. Dowaluck in 1988 postulated that this shear was the extension of a major shear zone designated the Wentright Shear extending in a SW direction from Maisonville Township where it is well exposed. Benner, also inferred a number of NW trending gold bearing Shea Vein (290 degrees azimuth) associated with a shear at the same azimuth. This 290 degree azimuth corresponds with porphyry dykes orientations underground on the 250 level near shaft (referenced as No 6 Vein target by Londry, 1985) These porphyry dykes are known to be associated with gold mineralization as well. It is apparent from this information that structure at 045 degrees azimuth and 290 degrees azimuth are important controls for gold mineralization on this property.

A compilation of drill hole data including geological information was completed using historical drill logs and old historical plans from the Sirola family data base and assessment file data. In order to maintain a consistent lithological table original nomenclature for various rock types was carried forward from early work including drilling in the 1980's. Of particular note is the gabbroic unit which is dominant unit in most of the work. No slide work or whole rock analysis has been completed on this unit; and this unit may be classified incorrectly as it is possible this is a diorite unit; but for consistency it has been continually called gabbro.









Survey Control:

A cut line survey grid was completed over the entire group of leased claims in 2012-2013. The base line and many old cut lines with metal tags could be still observed in 2020. The Baseline 0 / Line 0 intersection point was cut proximal to the shaft collar on the property at 5336194 N and 560321E (Nad 83, Zone 17). More specifically the centre of the shaft is approximately at station 11.5 meters east on the baseline and 3 meters south. This is a best estimate due to the fact that the actual shaft centre is surrounded by a safety fence.

The historic SGX Resources control grid baseline was oriented at 040 degrees azimuth and 100 meter spaced lines were cut at right angles to the baseline at 130 degrees azimuth. Note, a review of the original SGX report noted that the baseline azimuth and line azimuth were reported in error at 45 and 135 degrees respectively. During the course of geophysical surveying by former operator SGX Resources each data point on the grid was surveyed with a GPS system so as to give an accurate location of the entire grid for reference purposes. Although the old SGX grid was and aid in target location, all Pelangio drill holes were spotted using a hand held GPS unit. It was noted that geo referenced historical maps and associated historical surface working correlated well in the field so that a high confidence level could be had when targeting the 2020 Pelangio drill holes with a GPS unit.

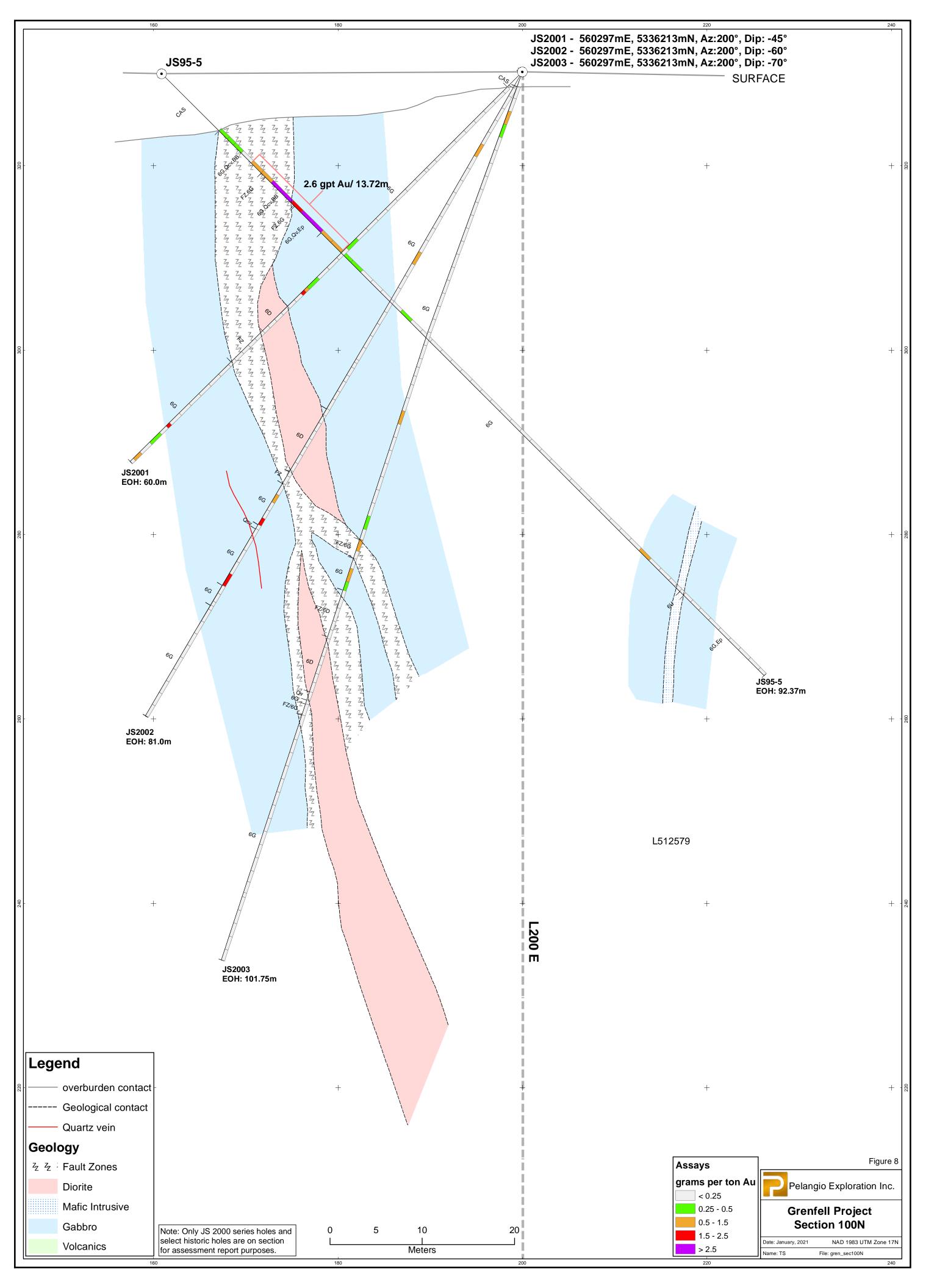
Upon completion of the exploration program drill hole collars were surveyed in using a hand held GPS and down hole readings were taken during the course of drilling to determine hole deviation where possible. Drill hole collars were also marked and labeled. A number of erratic readings occurred in down hole survey tests due to magnetics and these were excluded from the data base as they were determined inaccurate. Elevations for the drill holes were estimated using government topographic contour maps. A more accurate survey of collar locations and elevations along with some of the old workings will have to be conducted in the near future as the property is advanced further.

Drilling Program Discussion:

In 2020 Pelangio Exploration conducted a 1224 meters (13 holes) of drilling on the Grenfell Property. The program consisted of two drill program phases; the 1st phase was conducted in early 2020 and a 2nd phase conducted in the fall of 2020. The 1st phase of drilling was designed to further evaluate the NW trending No.6 Vein where limited historical drilling from both underground and surface were indicative of excellent gold potential. Two drill fans with three holes from each fan (JS2001-JS2003 & JS2004-JS2006) were completed to test the up dip near surface extension of the No.6 Vein. Two drill holes (JS2007 and JS2008) from a single set up were also completed to follow up on interesting gold values from a single historical hole (JS1302) on the SW zone discovered by SGX Resources in 2013. (Figure H1)

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The 2nd phase of drilling was designed to follow up on the positive results obtained on the No.6 Vein area during the 1st phase program. Drill holes (JS2013 & JS2014) in the 2nd phase drill program evaluated the No. 6 Vein along strike and at depth to the SE.



Two holes were also drilled to test two other NW trending structures in light of the excellent results obtained on the northwesterly trending No.6 Vein. A single hole (JS2009) was drilled to test the Shea Vein target and a single hole (JS2010) the Central Target. These holes were based on information obtained from limited historical drill data and information gleaned from historical level plan maps from the 250 level. A single hole (JS1311) drill tested the up-dip extension of the No.1 Vein on the 250 level which was reported to have returned 0.2 oz gold/ton over a width of 3 feet for a strike length of 180 feet on the 250 level (J. Laundry, P.Eng, 1985). All drill hole and related target areas are shown in the accompanying Figure 7 & 7A)

Detailed drill hole co-ordinate data and sample data are presented in the accompanying Table 1 and the significant results of the program are presented in the accompanying Table 2. A discussion of the drill hole results from specific targets areas from both the 1st and 2nd phases of drilling are discussed in the following sections.

TABLE 1: DRILL HOLE LOCATION DATA							
HOLE NO.	NORTHING	EASTING	AZ. (Deg.)	DIP (Deg.)	LENGTH (m)	No. of Samples	No. of Assays
JS2001	560297.00	5336213.00	200.00	-45.00	60.00	47	47
JS2002	560297.00	5336213.00	200.00	-60.00	81.00	64	64
JS2003	560297.00	5336213.00	200.00	-70.00	101.75	75	75
JS2004	560318.00	5336214.00	197.00	-47.00	60.00	56	56
JS2005	560318.00	5336214.00	197.00	-60.00	125.50	105	105
JS2006	560318.00	5336214.00	197.00	-70.00	53.50	41	41
JS2007	559992.00	5336066.00	130.00	-45.00	90.00	70	70
JS2008	559992.00	5336066.00	130.00	-55.00	113.85	88	88
JS2009	560160	5336026	047	-51	81.20	69	69
JS2010	560249	5336087	047	-63	90.00	74	74
JS2011	560326	5336231	130	-62	90.00	71	71
JS2013	560325	5336177	020	-65	129.00	92	92
JS2014	560335	5336167	020	-67	150.00	115	115
Note: 77 blank and standards included beyond totals for individual holes shown above							

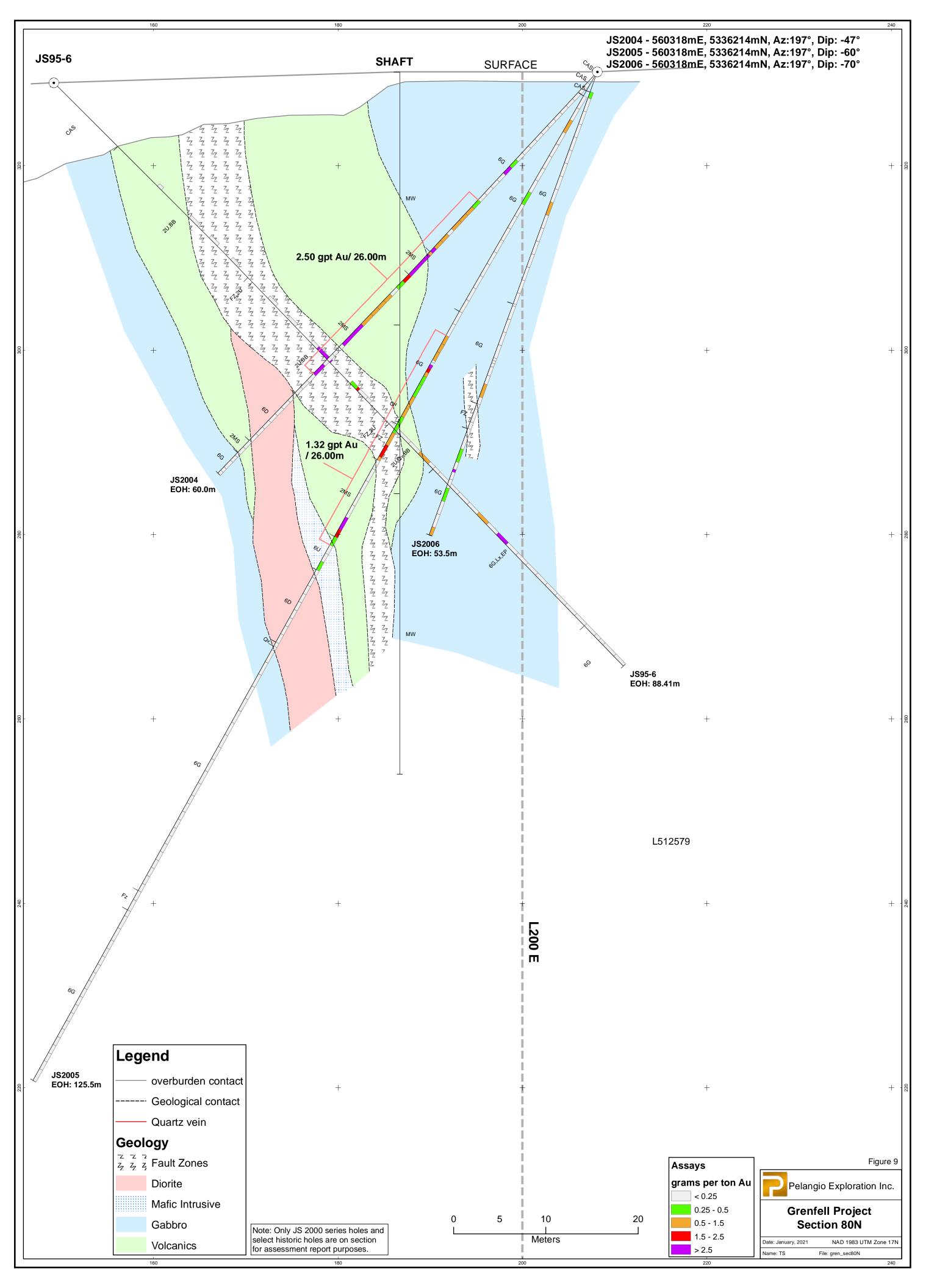
TABLE 1: DRILL HOLE LOCATION DATA

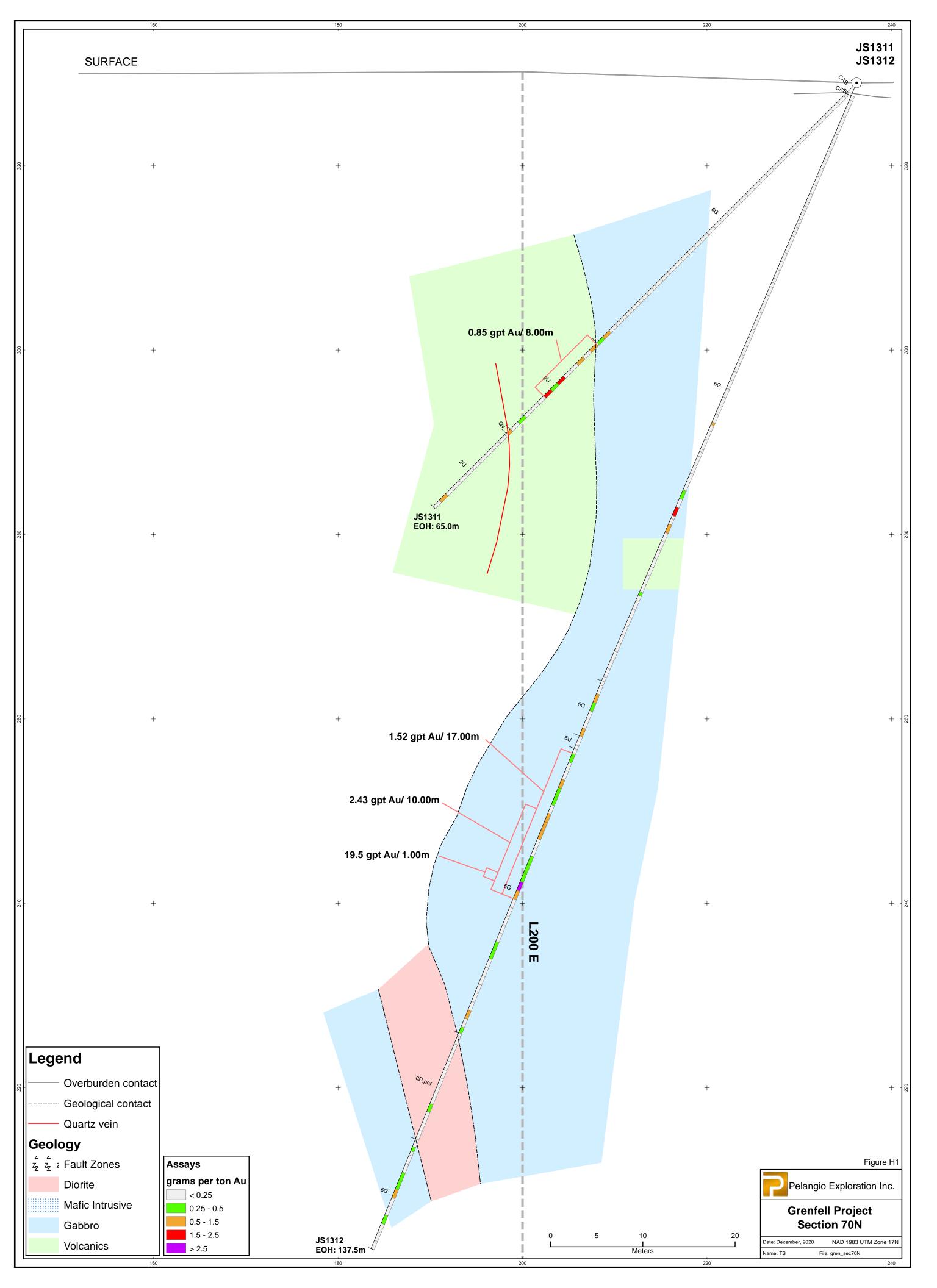
Note: 77 blank and standards included beyond totals for individual holes shown above.

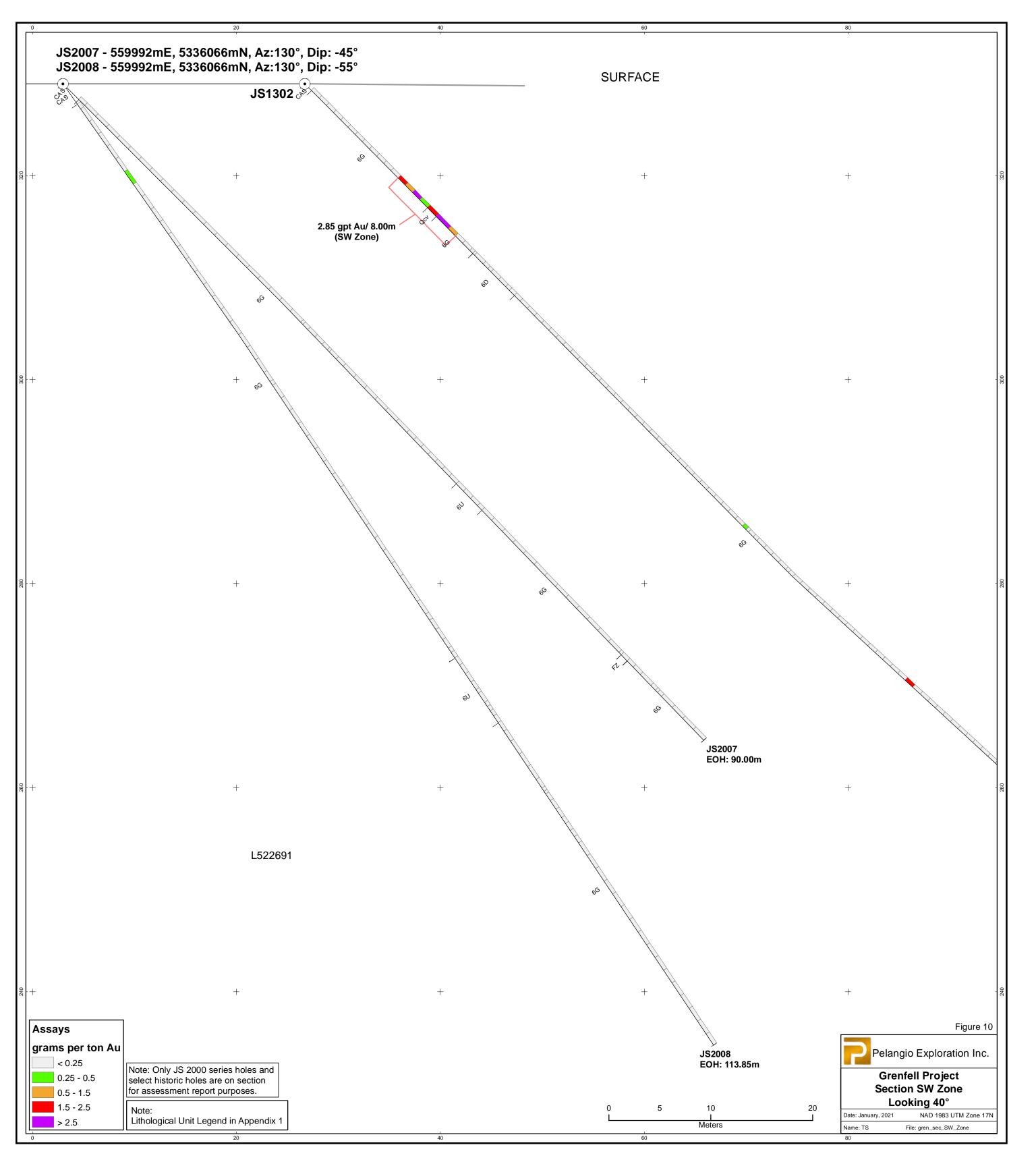
No 6 Vein Target (Holes JS2001-JS2006 & JS2013-JS2014) Figures 7,7A, 8,9,H1,14,15

In early 2020 the first drill fan with holes JS2001 to JS2003 were drilled to follow up on the historical Sedex hole JS955 which was thought to have intersected mineralization proximal to the near surface up dip projection of the No.6 Vein. Historical hole JS955 was reported to have returned 2.6 g/t gold over 13.72 meters with some higher-grade intercepts. Despite intersecting similar lithology and the same major fault structure noted as broken blocky core in the JS955 log no comparable zone of mineralization was detected in holes JS2001 to JS2003. These holes did however intersect a diorite intrusive unit which on occasion has poorly developed porphyritic texture. This unit is thought to be the actual No.6 Vein "Porphyry" described in the literature. (Fig.8) The unit itself is not gold bearing but gold mineralization as described below is distinctly apparent in the hanging wall of the unit.

The second fan of drilling (Holes JS2004 to JS2006) intersected both high grade gold and broad zones of gold mineralization in both gabbro and mafic volcanic units (see Table 1) on the hanging wall of a diorite intrusive and the hanging wall of a major fault







zone (Fig. 9). The diorite unit exhibits a poorly developed porphyritic texture and this intrusive is thought to be the No.6 Vein actually described in literature. The steeply dipping gold zone in Fig.9 is thought to represent the No. 6 Vein gold zone. However, it is actually only spatially associated with the No.6 Vein "diorite porphyry" unit, as it is actually in the hanging wall of diorite porphyry. The down dip extension of the zone in Fig.9 is not accurately portrayed as Hole JS2006 deviated and went into the mine workings prior to crossing the extent of the zone noted in the upper holes JS2004 and JS2005.

It is possible that historical hole JS955 clipped the edge of the mineralized zone shown in Fig.8 on the footwall of the fault and holes JS2001 to JS2003 were likely drilled into a fault gap. Further drilling would be required on a section north of the Figure 8 section to test this concept and determine if the zone extends to the NW on the footwall of the fault.

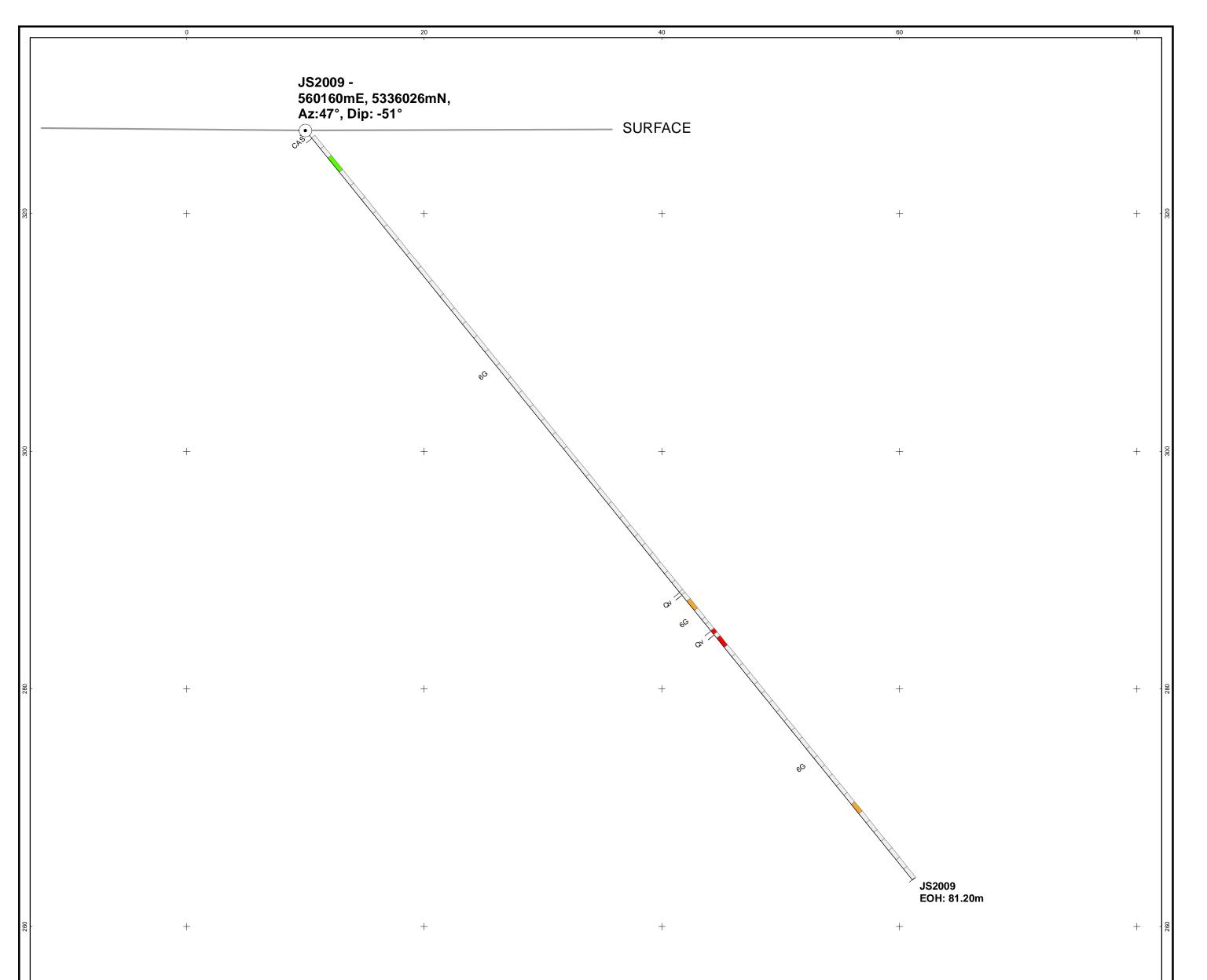
In the fall of 2020 two follow up drill holes (JS2013 & JS2014) were drilled to test the SE extension of the mineralized zone associated with the No.6 Vein. Hole JS2013 specifically targeted the intersection of the No.1 / No.6 vein intersection to further test for a potential broad zone of mineralization associated with the two vein systems. Approximately 10 meters above the interpreted intersection point there was a vein which returned 11.4 g/t over 0.6 meters but no related bulk zone. The hole did however intersect a possible new vein system in the hanging wall of the No.1 Vein system which assayed 10.95 g/t Au over 3 m. Hole JS2014 failed to intersect a zone of mineralization along the No.6 Vein trend but did intersect two new zones grading 1.45 g/t Au over 9 m. and 1.76 g/t Au over 4.5 m The hole was stopped prematurely in mineralization.

SW Target (Drill Hole JS2007 and JS2008) Figure 7 & 10

Holes JS2007 and JS2008 were drilled from a single collar location in an attempt to test the down dip and plunge of mineralization encountered in historical SGX hole JS1302. No significant mineralization was noted in the gabbroic host rock encountered. It has been postulated that hole JS1302 may have fortuitously intersected a NW trending structure similar and proximal to the Shea Vein (see Fig.6). A hole at right angles to the section line (Az 40 deg) under the mineralized intercept in historical hole JS1302 would be required to prove or disprove this idea. Alternatively, both holes may have been drilled under a more NW / SE zone with a steep plunge. Geophysical (IP) data suggest a NW trending target. More drilling would be required to investigate this concept. Some exposure exists here and it would be prudent to strip some of the rock prior to drilling to better determine the orientation of the mineralized zone on surface if possible.

Shea Vein Target (Drill Hole JS2009) Figure 7 & 11

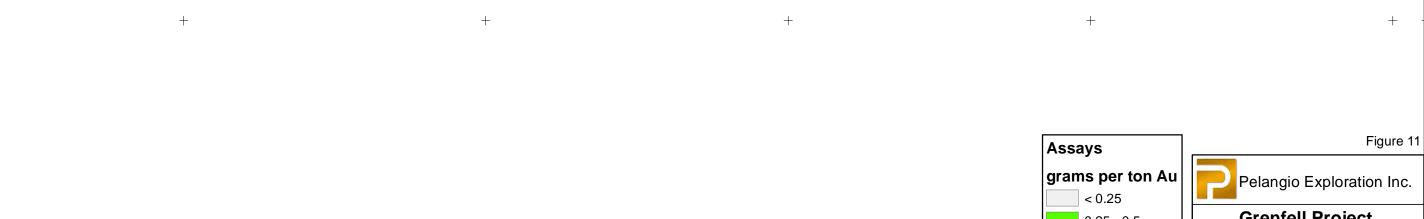
The Shea Vein similar to the No.6 Vein target is a NW trending structure. It was explored via surface trenching and underground development in the 1930-1940 era by previous operators. (Fig.6 & 7) Limited information is available on the target but a significant drill hole intercept of 0.41 oz/ton gold over 3 ft was documented in a report by J. Laundry, P.Eng in a report in 1995. Figure 6 also show visible gold being documented on the surface trench. This visible gold was personally observed by the author. The purpose of



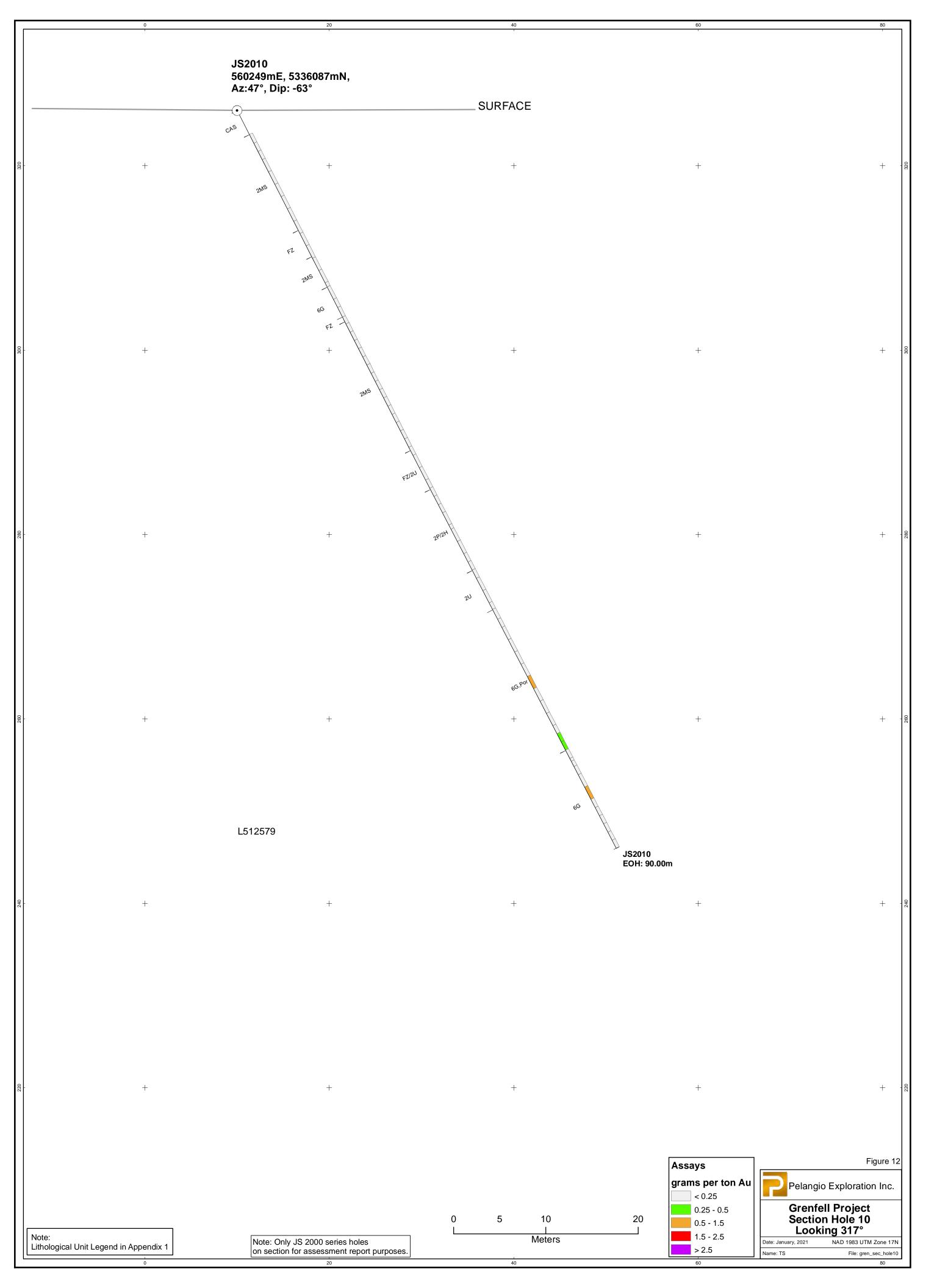
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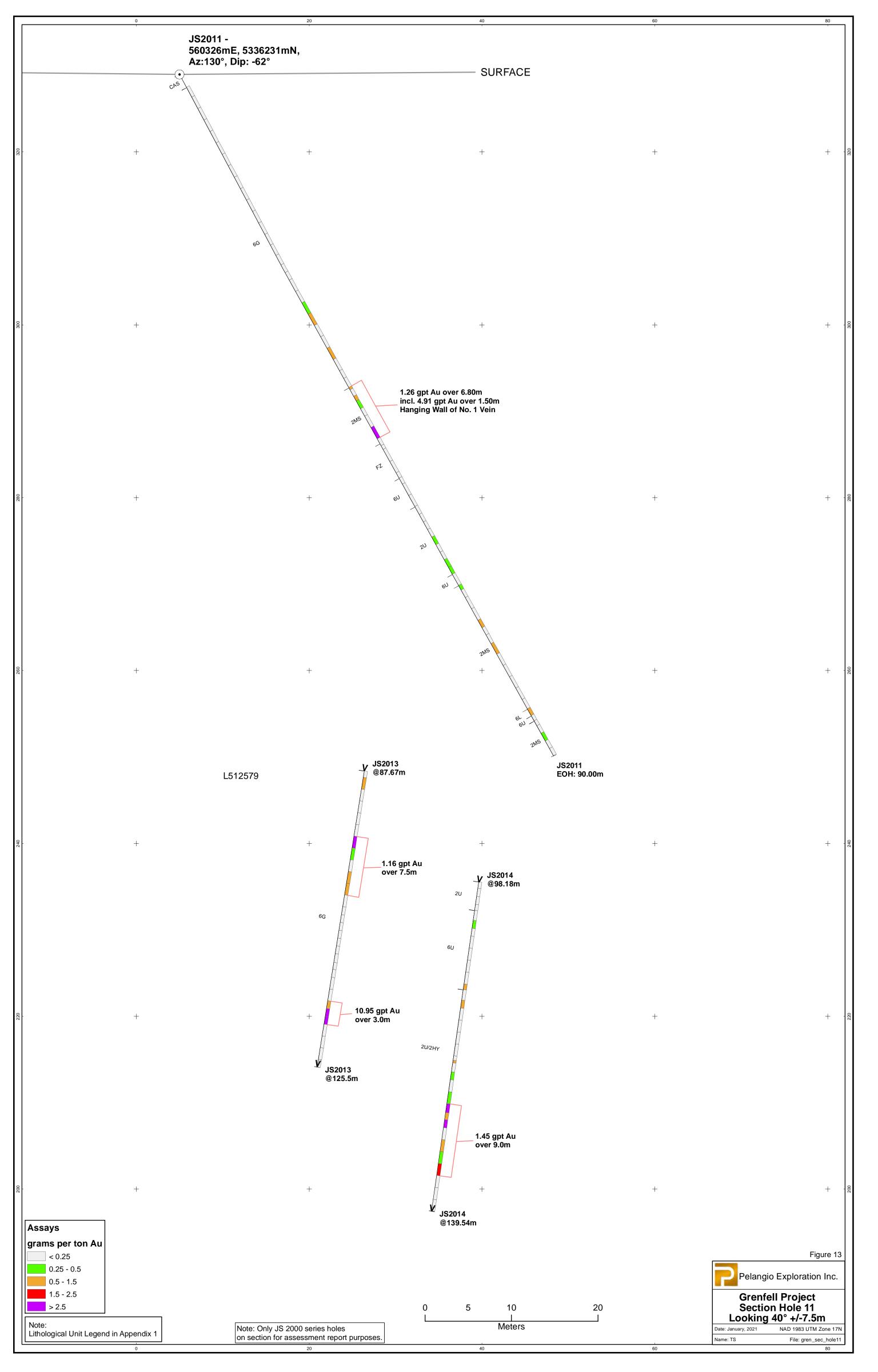
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Grenfell Project Section Hole 9 Looking 317° uary, 2021 NAD 1983 UTM Zone 17N 0.25 - 0.5 20 0 5 10 0.5 - 1.5 Т 1 1.5 - 2.5 Note: Lithological Unit Legend in Appendix 1 Meters Note: Only JS 2000 series holes on section for assessment report purposes. Date: January, 2021 > 2.5 File: gren_sec_hole9 Name: TS 20 60 0 40 80





hole JS2009 was to further evaluate both the Shea Vein narrow vein high grade potential as well as the potential for a broad zone of mineralization similar to that found proximal to No.6 Vein.

Drill hole JS2009 for the most part was drilled totally is gabbro with the exception of a couple of quartz believed to represent the actual up dip intersection of the Shea Vein. Little or no analysis has been done on the Grenfell property for other metals. In some instances, gabbro is known to be a favourable host for some platinum group metals. As a result, hole JS2009 was assayed for gold along with platinum and palladium.

Hole JS2009 returned a couple of small lower grade intercepts thought to be the up dip extension of the Shea Vein. No associated broader zone of lower grade mineralization in the surrounding wall rock was noted. All Pt and Pd assays were below detection limits.

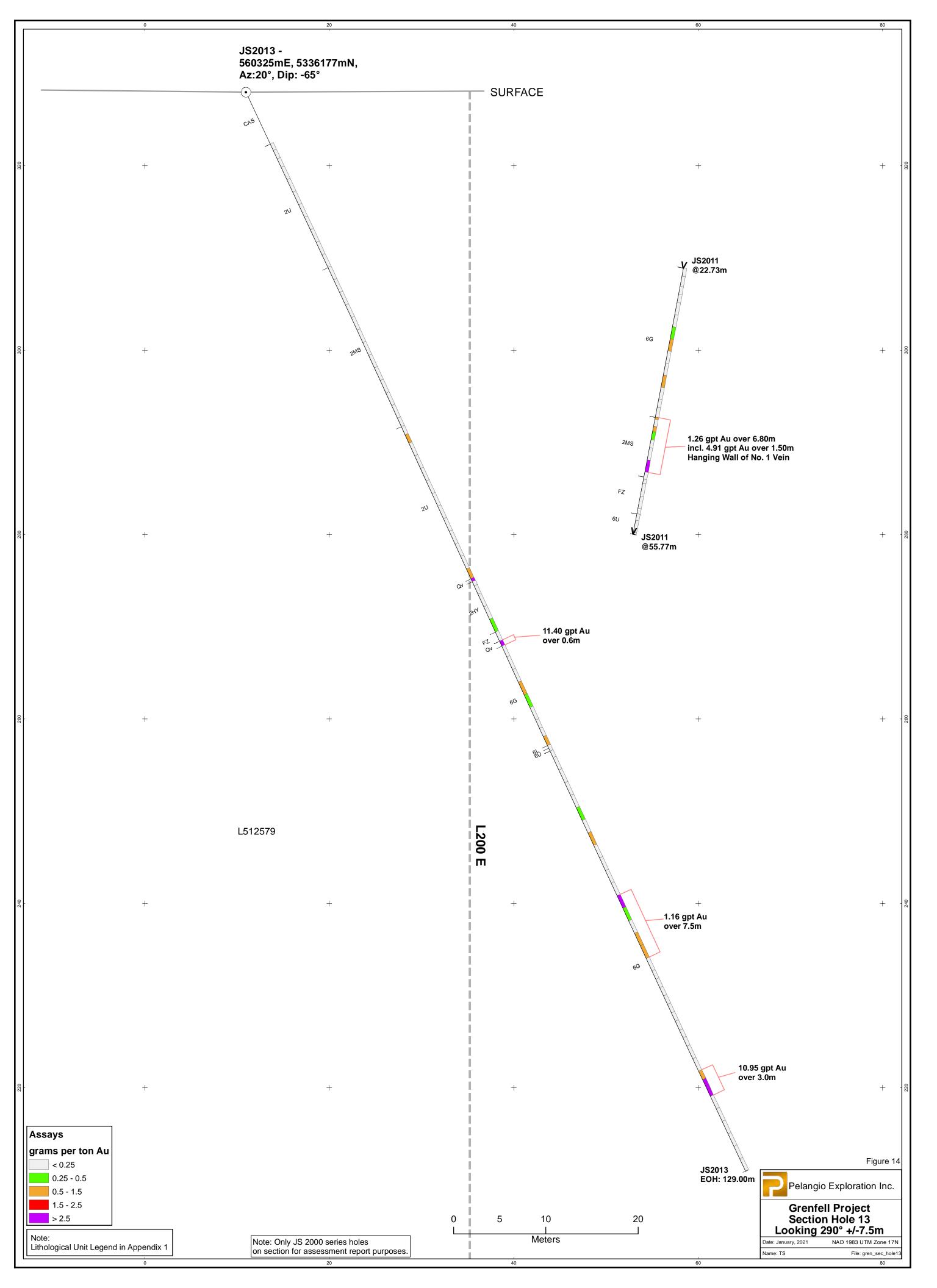
Central Target (Drill Hole JS2010) Figure 7 & 12

The Central Target is represented by a NW-SE oriented development drive located between the shaft and the Shea Vein. There is almost no information on the purpose of the development drive in the historical literature or plan data with the exception that at the start of the drive the letters "VG" are noted on a historical plan. The Central Target is thought to be a similar target to the Shea Vein and No.6 Vein due to the Central Target orientation. A single drill hole (JS2010) was drilled a short distance above the development drive to test the up dip potential for narrow vein high grade and possible associated broad near surface mineralized zones similar to that found at the No.6 Vein.

Hole JS2010 did not intersect any major vein or mineralized zone. No significant gold values were noted in this hole. The upper portion of the hole to 60.80 intersected mainly mafic volcanics and the latter portion of the hole was in a gabbro unit. The initial gabbro unit found at the contact of the volcanics was described as feldspar porphyritic. The reason for the 60 plus meter development drive on Central target on the 250 level remains unknown.

No.1 Vein (Drill Hole JS2011) Figure 7, 7<u>A</u>, & 13

A single hole was drilled to again evaluate both the up dip narrow vein potential of the No.1 Vein and any potential broad zones of lower grade mineralization. Historical data shows that very minimal drilling was completed to further evaluate the known 180 feet of strike length on this vein which returned 0.2 oz gold/ton over a width of 3 feet from chip sampling of a development drift on the 250 level. (Londry, J., P.Eng, 1995). Hole JS2011 did intersected some weakly anomalous values on the up dip projection of the vein; however a small low grade intercept was noted in the hanging wall of the vein which assayed 1.26 g/t Au over 6.80 m including a higher grade intercept of 4.91 g/t Au over 1.5 meters. Extensions of Hole JS2013 and JS2014 described previously demonstrated potential for new mineralization associated with the hanging wall of this vein system.



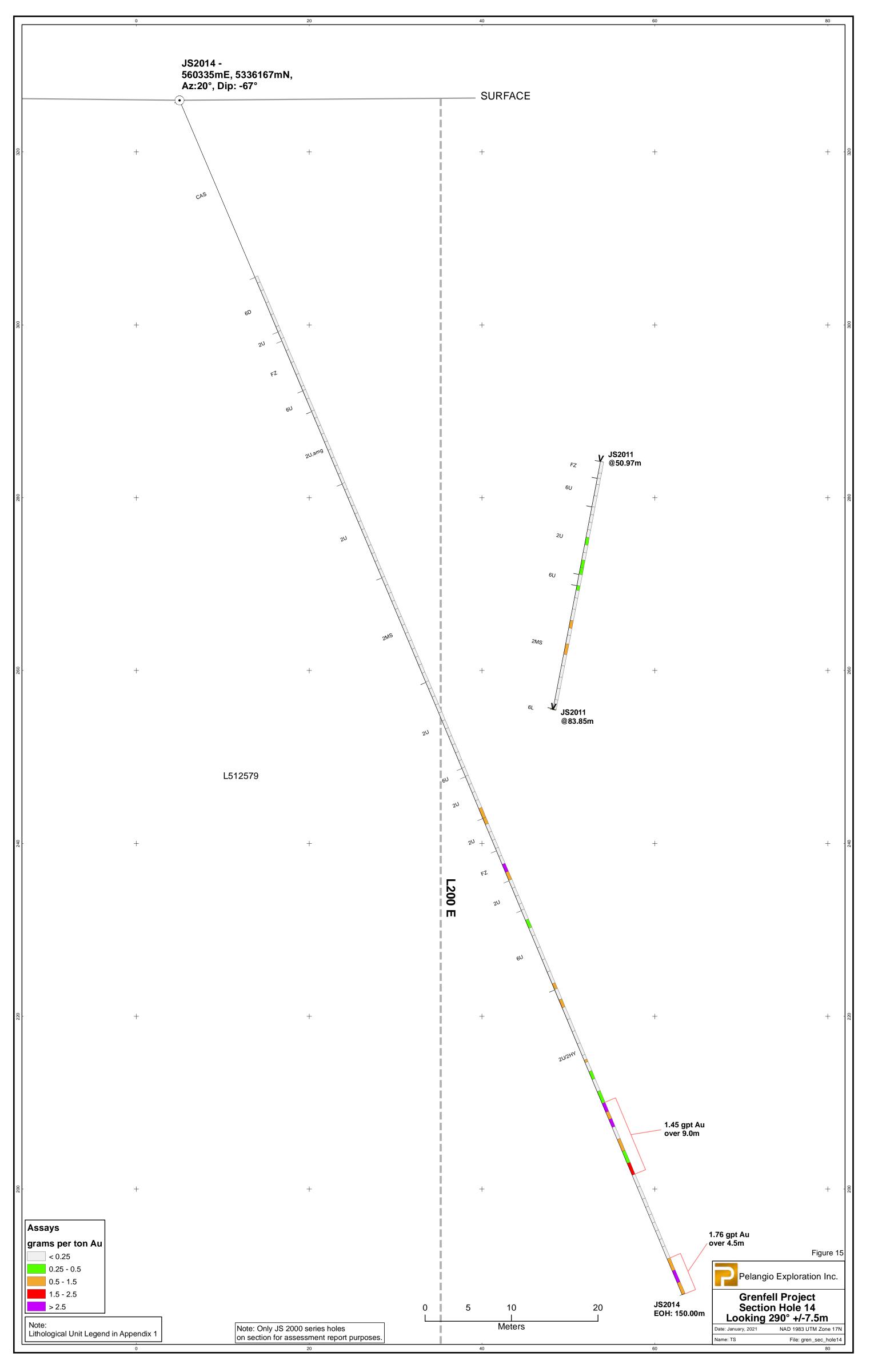


TABLE 2: SIGNIFICANT ASSAT INTERCEPTS								
HOLE NO.	FROM	то	METERS	G/T Au	G/T AU (CUT)	G/T Au (UNCUT)		
JS2001	31.50	34.00	2.50	0.937				
includes	33.00	34.00	1.00	1.60	1			
J52001	54.50	55.00	0.50	2.45				
	58.50	59.50	1.00	1.05				
					Ì			
JS2002	53.00	54.00	1.00	1.03	1			
	56.00	56.85	0.85	1.56	1			
	63.00	64.50	1.50	1.82				
					1			
J52003	57.00	58.50	1.50	1.06				
JS2004	14.00	15.00	1.00	3.73	1			
					ł			
JS2004	19.00	45.00	26.00	2.50	1			
includes	26.00	45.00	19.00	3.18				
	29.00	45.00	16.00	3.23	ł			
	37.50	45.00	7.50	4.81				
	37.50	40.50	3.00	9.39				
					ļ			
J52005	33.00	59.00	26.00		1.32			
	33.00	59.00	26.00			21.80		
Includes	36.26	38.00	1.74		7.95			
	36.26	38.00	1.74			314.00		
includes	36.26	36.56	0.30	1810.00	. !			
					1			
JS006	36.00	37.50	1.50	1.09				
	45.83	46.15	0.32	26.50				
					i			
J52009	54.20	56.00	1.80	1.51				
includes	54.20	54.60	0.40	2.33	r 1			
152044	44.20	40.00	6.00	4.95	i i			
JS2011	41.20	48.00	6.80	1.26				
includes	46.50	48.00	1.50	4.91	1			
152012	57.00	58.50	1.50	1.32	1			
JS2013	65.60	66.20	0.60	11.40				
	70.50	72.00	1.50	1.49				
	77.00	78.05	1.05	1.20				
	96.00	103.50	7.50	1.16				
includes	96.00	97.50	1.50	3.61				
includes	117.00	120.00	3.00	10.95				
includes	118.00	119.00	1.00	23.40				
	110.00	119.00	2.00	20.40				
J52014	96.00	98.00	2.00	2.31				
includes	96.00	97.00	1.00	3.60				
	126.00	135.00	9.00	1.45				
	126.00	127.10	1.10	4.02				
includes	145.50	150.00	4.50	1.76				
includes	147.00	148.50	1.50	3.46				

Sampling Method and Approach:

The core handling and sampling procedures at Pelangio's Grenfell Project met current industry standards. When drill core was received from the drill a first pass examination of core was carried out to check labeling of boxes and blocks within the hole. Upon completion of this work the core is logged using a consistent lithological table established by the Pelangio geologist and all pertinent geological information recorded in an excel spread sheet for easy coding and transfer to a database for plan and section work.

Intervals to be sampled were identified and marked on the core by a company geologist and the following sampling protocol carried out:

- Beginning and end of sample intervals are based on geology and mineralization noted from core logging.
- Maximum individual sample length equal to 1.6 metres but majority of samples at 1 to 1.5 meters with a few samples 15-30 cm. These smaller samples usually taken to sample a specific vein or a section with visible gold.
- Contiguous samples are collected along full length of mineralized diamond core.
- Core sample intervals were divided into half lengthways using a diamond saw.
- Half of each sample interval was collected in a new plastic bag and tagged with reference sample number. The samples were placed in rice bag sacks and sealed for delivery to the lab by company staff.
- The residual core half was returned to the original location in the core box along with a numbered sample tag for future reference.

With respect to the design of sampling intervals; the actual intervals were designed to provide contiguous sampling across the full width of the mineralized zones including shoulder samples. However, due to the nature of the known mineralization on the Grenfell Project all of the core was sampled as rock units with potential gold mineralization were not always evident. Particular attention was paid to the following general geological parameters to identify potential gold bearing zones for priority sampling included the following:

- Rock types: No restriction on rock type. Mineralized zones potentially occur in all rock types intersected in the project area.
- Rock deformation: Mineralized zones may include evidence for increased host rock deformation including foliation, ductile strain, and/or brittle fracturing including the following vein-filling minerals: quartz, carbonates, feldspars, sulphides (in particular chalcopyrite ± pyrite and pyrrhotite).
- Rock alteration: Mineralized zones may be marked by an increase in the following alteration types within the host rock: chloritic alteration, carbonate alteration, sericitization, sulphidization (in particular chalcopyrite ± pyrite and pyrrhotite) and silicification.
- Visible native gold

It should be noted that within the sampled section of core there were rare instances of

missing core due to due to drilling problems associated with poor or broken ground conditions. A notation of these ground conditions were made in logs. However, on an over all basis sample quality was considered excellent and representative of the observed mineralized intervals.

Sample Preparation, Analyses and Security:

Core from the Pelangio Exploration 2020 drilling program was logged and sampled at secured logging facilities. The core was logged and sampled by experienced geologists and technicians under the supervision of the project geologist as per protocols described in the previous section.

For Pelangio's Grenfell project the standard operating procedure relative to gold assays is to record in the log and/or data base if a standard gold fire assay or pulp metallic gold fire assay was completed. If a pulp metallic assay was completed it was put into the data base and taken as the most accurate representation of the sample and recorded in both the log and put into the data base. In the event of a duplicate assay completed on a sample such as a check by the lab the average of the two analysis was placed in the log and the data base. In some instances, a gravimetric assay was completed after a gold fire assay with an AA finish due to the presence of a higher grade sample. Both assays were recorded in the logs and the gravimetric sample was taken as the most accurate and placed in the data base.

Analysis for the Grenfell Project was completed at Actlabs in Timmins Ontario. All gold samples were fire assayed with and AA finish using industry standard fire assay procedures. (Actlabs Code 1A2-50) If the sample returned 5000 ppb gold or greater, the sample was re-assayed with a gravimetric finish. For gold and platinum group elements together, each sample was fire assayed with an ICP-OES finish (Actlabs Code 1C-OES-50).

Standard quality control procedures are present in the lab utilized. However, in addition to the quality control at the labs Pelangio also submitted certain quality control samples. A known "Standard Reference Material" sample (Oreas 221 standard) and a "Blank Sample" for a minimum of every 28 samples. More specifically each batch of 30 samples had at least one standard and blank for within the 30 samples submitted including the standard and blank. Details on the Oreas 221 standard are outlined in Appendix 3. Garden stone limestone samples from the hardware store were used as blanks. During the course of the program all standards and blank results were reviewed. A standard was considered to have failed if it did not meet the three standard deviation threshold. When a standard failed and the geologist deemed that significant mineralization was present the entire sample batch was re-assayed with a new standard. Batches with results not of significance were not re-assayed. Re-assayed batches can be seen in accompanying logs as all results including re-assayed batches were posted in logs.

Data Verification:

As described above exploration at Pelangio's Grenfell Project including core logging, sampling procedures and record keeping are industry standard. The author personally

supervised the entire program and was on site during the time the work was carried out. The author personally logged all drill core and supervised sampling technicians. Prior to completion of this current report the author reviewed all data base entries, drill logs, plans, and sections for errors prior to submission. From the material reviewed to date no major discrepancies were noted.

Conclusions and Recommendations:

Pelangio Exploration conducted two phases of drilling in 2020 to further evaluated the gold potential on its Grenfell Property in the Kirkland Lake area.

The salient points regarding this program are as follows:

Phase 1 Drilling

- Initial phase 1 drilling to evaluate the northwesterly trending No.6 Vein target returned significant gold mineralization in Holes JS2004 to JS2006. (see Table 1) Actual gold mineralization was found in the hanging wall and proximal to the No.6 Vein intrusive which is actually a poorly developed porphyritic diorite.
- Phase 1 drilling (Hole JS2007 and JS2008) on the SW target failed to obtain any significant results. The initial SGX discovery hole on the SW target may have fortuitously cut the edge of a NW trending structure (similar to proximal NW trending Shea Vein) at an acute angle and thus follow up hole JS2007 and JS2008 may have been drilled parallel to the NW trending zone. Alternatively, the holes may have went under the plunge of a more NE-SW striking zone, similar to what is suggested in historical geophysical data by SGX Resources. The drill hole intercept 2.85 g/t Au over 8m including 4.09 g/t Au over 4 meters and 9.41 g/t over 1 meter in SGX hole JS1302 on the SW zone by SGX resources remains unexplained.

Phase 2 Drilling

Drill holes JS2013 and JS2014 were allocated to continue follow up on the southeasterly strike extension of the No.6 Vein in light of early positive results obtained in Pelangio's phase 1 drilling. Hole JS2013 targeted the intersection of the No.6 Vein and No.1 Vein mineralization in at attempt to define a broader chute at the 250 level mine workings. No substantial broad mineralized zone was noted; a small vein returned 11.40 g/t over 0.6 meters about 10 m. above the 250 (76 m.) level. Hole JS2013 when extended beyond the No.1/No.6 vein intersection did however intersect mineralization in the hanging wall of the No.1 Vein. These intercepts were 1.16 g/t Au over 7.5 meters and 10.95 g/t over 3 meters. Similarly, no extension of the No.6 Vein mineralization was found in JS2014. This hole did however intersect two new zones of mineralization in the hanging wall of the No.1 vein which assayed 1.45 g/t Au over 9 meters(including 4.02 g/t Au over 1.10 m) and 1.76 g/t Au over 4.5 meters (including 3.46 g/t over 1.5 m). Hole JS2014 was unfortunately stopped in mineralization.

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- A single hole (Hole JS2011) also targeted the up dip extension of the No.1 Vein. Weakly anomalous gold was noted at the up dip projection point of the No.1 Vein but in the hanging wall of the vein an intercept of 1.26 g/t Au over 6.80 meters was noted.
- Two holes JS2009 and JS2010 were drilled to test the Shea Vein target and the Central Target respectively. Both of these targets were drilled to further evaluate the narrow vein high grade potential and to evaluate any potential bulk zone mineralization. Two narrow low grade intercepts were noted on the up dip extension of the Shea Vein and no significant mineralization was noted in hole JS2010. The reason for the 60 plus meters of drifting on the Central Target on the 250 level is unknown with the exception that a level plan had "VG" marked at the start of the development drive. The amount of development on the Central Target appears excessive if there was only minimal visible gold.

The following recommendations should be considered regarding further work on the Grenfell Property:

- 1) All drill data and available mine level plan data should be modelled in Leapfrog or a similar system to ascertain any continuity of mineralization in and around the shaft area. Future drilling in this area should be considered contingent on results from the model data demonstrating further potential.
- 2) A drill hole should be allocated to test a coincident induced polarization and soil geochemical (MMI) on Line 3W between 450 and 500 N stations. (Old SGX Resources Grid) Approximately 200 meters of drilling is required to test this area.
- 3) Some funding should be allocated to test an airborne electromagnetic anomaly under the pond on the boundary between Lease 522687 and cell claim 208446 as documented in OGS P2256, Maisonville Twp geophysical map.
- 4) A drill hole or two should be allocated to try to further explain the drill hole intercept is SGX JS1302. This area has some rock exposure as the drill hole was collared in bedrock. Some stripping of the exposure may be beneficial prior to drilling to determine the orientation of the zone.

The more exact budget for all of the recommendations above would be defined upon completion of recommendation No. 1. The estimated cost of carrying out the model work in recommendation No.1 above is estimated at an initial cost of \$20000.00.

Respectfully Submitted

J.Kevin Filo, P.Geo. (Ont #0220)

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CERTIFICATE OF AUTHOR

- I, J. Kevin Filo, P. Geo. do hereby certify that:
- 1. I am a consultant of:

Pelangio Exploration Cedar Hill Connaught Ontario

- 2. I graduated with an Honours Bachelor of Science Degree in Geology from Laurentian University in Sudbury in 1980.
- 3. I am a member of the Association of Professional Geologists of Ontario (Reg. No. 0220).
- 4. I have worked as a geologist for a total of 40 years since my graduation from university.
- 5. I am responsible for a non- independent review of the current subject report and I was responsible for the planning and supervision of the recent drill program.
- 6. I am not aware of any material fact or material change with respect to the subject matter of the report that is not reflected in the report, the omission to disclose which would make the report misleading.
- 7. I am not independent of the issuer. I presently control a number of shares in Pelangio Exploration and I am the Vice President of Corporate Development for Pelangio Exploration.

Dated this 10 Day of January, 2021

Signature of Qualified Person J. Kevin Filo, P.Geo. (Ont.#0220) Appendix 1: Copy of Lithological Code for Drill Program

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LEGEND

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ABBREVIATIONS

<u> </u>	Textural	Veining
Tru Felsic to Intermediate Intrusive	-	Av ankerite
	og oggiomerate AZ.oz alteration zone	Cy calcite
7G Gronite	any anygdaloidol	Epy epidote
76D Granodiorite, Ouartz Monzonite	FB fb flow breccio	Hemv hemotite Mtv maanetite
Tonalite	fol folioted	Mtv magnetite Ov auartz
T5 Syenite	glom glomerophyric	Otourv guortz—tourmal?ne
	hy hyolociOstic htr heterolithic	Oov quartz ankerite
7M Manzonite	lap lapili	Qcv quartz calcite
7FP Feldspar Porphyry	ms massive	Toury tourmaline
DOFP Quartz/Feldspar Porphyry	p pillowed	Intensity Code
7PA Pegmatite	por porphyritic sch schistose	Qav 1-5%
	sfx spinifex	QAV 5-15%
7A Aplite	t tuffaceous	[QAV] >15%
TT Felsite	ves vesiculor	
LEU Mafic to Ultramafic Intrusive	var variolilic	Structural
[60 Dionite, Trandhjænite		
	_Alteration	bd bedded
<u> </u>	Ab albitizotion	bnd bonded
6A Anorthosite	Ank ankeritization	bx breccia bxd brecciated
EP Peridotite, Pyroxenite	Bi biotizotion	et contact
6L Lomprophyre	Col colcitic Corb corbonatization	f foult
	Cb corbon	FZ.fz foult zone
50 Clastic Sediments	Chi chloritizotion	fit foulting
	Ep epidotizotion	fr flow fr frocture
SAR Argillite	Gcb green carbonate Hem hemotization	g gouge
SARGE Graphitic Argillite	Lx leucoxene	s sheor
5GW Greywocke	Pot potassic	SZ,sz shear zone
5CG Conglomerate	Ser sericitization	sik slickenside
	Serp serpentinization Sil silicification	
5007 Timiskoming Conglomerate	Te tole	•
[555] Sandstone	Tour tournaline	
557 Siltstone		OTHER
50 Quartzite	Intensity Code	to Realized
5A Arkose	Ank weak	វg fine grained ៣g ៣edium groined
	ANK moderate	cg coarse groined
40 Chemical Sediments	[ANK] strong	fring fine to medium grained
		fog fine to course groined
4IF tron Formation	Mineralization	int intermittent loc,l_locally (locol) eg Imag
[41FS] Sulphide Facies		mag magnetic
AIFC Silicate Facies	Asp arsenopyrite , Cl clustered pyrite	mod moderate
 [41F0] Oxide Focies	Cpy choicopyrite	st strong
	Ds disseminated pyrite	vs very strong wk.w_ weak eq wmaq
	Gn goiena	TA, WE WEY EY WINDY
4IGF Grophite	Mt magnetite	
WDF of opinic		•
· ·	Mo molyodenite	
	Mo molyodenite Pa pyπhotite	
·	Mo molybdenite Ро рупhotite Ру ругite Sw stockwork pyrite	·
<u></u> <u></u>	Mo molyodenite Ра рупhotite Ру ругite	·
<u>3U</u> Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite	Mo molybdenite Ро рупhotite Ру ругite Sw stockwork pyrite	·
3U Feisic to Intermediate Volcanics Image: Image	Mo molybdenite Ро рупhotite Ру ругite Sw stockwork pyrite	·
<u>3u</u> Feisic to Intermediate Volcanics <u>3R</u> Rhyolite <u>3D</u> Docite	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold	·
JU Feisic to Intermediate Volcanics JR Rhyolite JD Docite JA Andesite JT Trochyte	Mo molybdenite Pa pyrhotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code	
JU Feisic to Intermediate Volcanics JR Rhyolite JD Docite JA Andesite	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7%	· ·
JU Feisic to Intermediate Volcanics JR Rhyolite JD Docite JA Andesite JT Trochyte	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	· ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12NS Massive	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7%	· · ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12NS Massive 2P Pillowed	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12NS Massive	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	· · ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12NS Massive 2P Pillowed	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	· · ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 2NS Massive 2P Pillowed 2FB Mafic Flow-Breccia	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	· ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12P Pillowed 12FB Mafic Flow-Breccia 2HY Mofic Hyaloclastite 12WWR Variolitic	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	·
3U Felsic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 2E Pillowed 2FB Mafic Flow-Breccia 2HT Mafic Hyaloclastite	Mo molybdenite Pa pyrthotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY] 3–7% [CPY] 7–15%	· ·
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 12NS Massive 12P Pillowed 12FB Mafic Flow-Breccia 12HY Mafic Hyaloclastite [2WWF Variolitic	Mo molybdenite Pa pyrhotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7% [CPY] 7–15% {CPY} >15%	· · ·
3U Felsic to Intermediate Volcanics 3R Rhyolite 3D Docite 3A Andesite 3T Trochyte 2U Mafic Volcanics 2E Pilkowed 2P Pilkowed 2P Mafic Flow-Breccia 2HT Mofic Hyaloclastite 2E Porphyritic	Mo molybdenite Pa pyrhotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7% [CPY] 7–15% {CPY} >15%	, ,
3U Feisic to Intermediate Volcanics 3R Rhyolite 3D Docite 3D Trochyte 2U Mafic Volcanics 12P Pillowed 12P Pillowed 12P Mafic Hyaloclastite 12HT Mafic Hyaloclastite 12HWR Variolitic 12POR Porphyritic 11U Ultramafic Volcanics - Unsubdivi 11IC Tolc-Chiorite Attered	Mo molybdenite Pa pyrhotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7% [CPY] 7–15% {CPY} >15%	
3U Feisic to Intermediaté Volcanics 3R Rhyolite 3D Docite 3D Trochyte 2U Mafic Volcanics 2WS Massive 2P Pillowed 2FB Mafic Flow-Breccia 2HT Mafic Hyaloclastite 2HT Variolitic 2POR Porphyritic 1U Ultramafic Volcanics - Unsubdivi	Mo molybdenite Pa pyrhotite Py pyrite Sw stockwork pyrite V.G. visible gold Intensity Code Cpy troce to 1% [Cpy] 1–3% CPY 3–7% [CPY] 7–15% {CPY} >15%	, , ,

Appendix 2: Copy of Assay Sheets from Drill Core

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Quality Analysis ...



Innovative Technologies

Report No.:A20-01414Report Date:21-Feb-20Date Submitted:05-Feb-20Your Reference:Grenfell

Pelangio Exploration Inc 1080 Michelano Drive Timmins Ontario Canada

ATTN: Kevin Filo

CERTIFICATE OF ANALYSIS

178 Rock samples were submitted for analysis.

 The following analytical package(s) were requested:

 1A2-50-Timmins
 Q

 1A3-50-Timmins
 Q

. |QOP AA-Au (Au - Fire Assay AA) |QOP AA-Au (Au - Fire Assay Gravimetric) Testing Date: 2020-02-19 10:00:28 2020-02-21 11:24:16

REPORT A20-01414

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

CERTIFIED BY:

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Emmanuel Eseme , Ph.D. Quality Control Coordinator

ACTIVATION LABORATORIES LTD. 1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1 TELEPHONE +705 264-0123 or +1.888 228.5227 FAX +1.905.648 9613 E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com Results

Activation Laboratories Ltd.

8

Analyte Symbol Unit Symbol Lower Limit Method Code	Au Ippb 5 FA-AA	Au g/tonne 0.02 FA- GRA
20501	7	
20502 20503	5 < 5	
20503	< 5 72	
20505	23	
20506	10	
20507	8	
20508	9	
20509	29	
20510	< 5	
20511	< 5	
20512	18	
20513	254	·
20514	3730	
20515	35	
20516	47	
20517	< 5	
20518	100	
20519	392	
20520	1060	
20521	635	
20522	1300	
20523	580	
20524	555	
20525 20526	1040 3120	
20527	789	
20528	3520	
20529	3070	
20530	15	
20531	> 5000	9.35
20532	1540	
20533	362	
20534	17	
20535	531	
20536	629	
20537	1460	
20538	1140	
20539	> 5000	10.9
20540	1050 > 5000	7.00
20541 20542	> 5000 26	7.89
20542 20543	20 140	
20544	> 5000	5.12
20545	> 3000 63	0.12
20546	87	
20547	35	
20548	20	
20549	11	
20550	< 5	
1		1

Results

Activation Laboratories Ltd.

Analyte Symbol	Au	Au
Unit Symbol	lppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-
		GRA
20551	18	
20552	28	
20553	22	
20554	7	
20555	< 5	
20556	64	
20557	161	
20558		
20559	35	
20560	1070	
20561	147	
20562	24	
20563	86	
20564	< 5	
20565	17	
20566	640	
20567	9	
20568	249	
20569	7	
20570	< 5	
20571	80	
20572	15	
20573	288	
20574	122	
20575	15	
20576	12	
20577	66	
20578	156	
20579	33	
20580	1080	
20581	94	
20582	36	
20583	199	
20584	231	
20585	107	
20586	558	
20587	753	
20588	776	
20589	49	
	45	
20590		
20591	> 5000	
20592	4230	
20593	2370	
20594	1020	
20595	475	
20596	379	
20597	1490	
20598	566	
20599	463	
20600	1090	
20000	1	I I
•		•

Analyte Symbol		Au
Unit Symbol		g/tonne
Lower Limit		0.02
Method Code	FA-AA	FA- GRA
20601	404	
20602	688	ł
20603	1530	
20604	557	
20605	52	l
20606	173	
20607	221	
20608	228	l
20609	90	
20610	< 5	
20611	4860	
20612	1700	
20613	328	
20614	169	
20615	171	
20616	293	
20617	19	
20618	12	l
20619	8	•
20620	1070	
20621	12	
20622	7	
20623	7	1
20624	25	1
20625	7	
20626	18	
20627	11	
20628	36	•
20629	20	
20630	< 5	
20631	117	
20632	50	
20633	114	
20634	80	
20635	52	
20636	88	
20637	49	1
20638	100	1
20639	27	
20640	1050	
20641	80	
20642	121	1
20643	145	{
20644	103	l
20645		1
20646 20647	17	l
20648	6	
20649 20650	< 5	
20000		
		1

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Analyte Symbol Unit Symbol Lower Limit Method Code	lbbp	Au g/tonne 0.02 FA- GRA
20651	13	-
20652	7	i i
20653	10	i i
20654	115	i i
20655	5	i i
20656	5	İ
20657	< 5	
20658	7	i ł
20659	94	
20660	5	1
20661	7	
20662	6	1
20663	< 5	
20664	8	
20665	12	
20666	< 5	
20667	< 5	1 1
20668	5	(I
20669	7	
20670	1040	1
20671	6	
20672	< 5	
20673	< 5	
20674 20675	6	
20675	< 5	
20676	7	
20677	< 5	
20070	5	

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Analyte Symbol Unit Symbol	Au ppb	Au g/tonne
Lower Limit	ρρο 5	0.02
Method Code	FA-AA	FA- GRA
SN75 Meas		8.94
SN75 Cert OREAS 217 (Fire	342	8.67
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert ` OREAS 217 (Fire	338	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert		
OREAS 217 (Fire Assay) Meas	338	
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire Assay) Meas	344	
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire Assay) Meas	350	
OREAS 217 (Fire	338	
Assay) Cert OREAS 217 (Fire	349	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert OREAS 217 (Fire	338	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert OREAS 217 (Fire	344	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert ` OREAS 217 (Fire	340	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert		
OREAS 217 (Fire Assay) Meas	354	
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire Assay) Meas	341	
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire Assay) Meas	344	
OREAS 217 (Fire Assay) Cert	338	
OREAS 257 Meas		13.9
OREAS 257 Cert		14.18
20510 Orig	< 5	
20510 Dup	< 5	
20521 Orig	611	
20521 Dup	658 I	1 1
•	•	• •

Analyte Symbol	Au	Au
Unit Symbol	dad	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
20530 Orig	18	
20530 Dup	12	
20545 Orig	65	
20545 Dup	60	
20550 Orig	< 5	
20550 Split PREP	< 5	
DUP		
20554 Orig	8	
20554 Dup	6	
20564 Orig	7	
20564 Dup	< 5	
20579 Orig	29	
20579 Dup	37	
20589 Orig	48	
20589 Dup	49	1700
20591 Orig		1780 1830
20591 Dup 20599 Oria	I I 434	1030
20599 Ong	434 492	
20599 Dup	492 404	
	404 404	
20601 Split PREP	404	
20613 Orig	328	
20613 Dup	328	
20623 Orig	7	
20623 Dup	6	
20633 Orig	112	
20633 Dup	116	
20648 Orig	6	
20648 Dup	6	
20650 Orig	< 5	
20650 Split PREP DUP	5	
20657 Orig	I I 5	
20657 Dup	<5	
20667 Orig	<5	
20667 Dup	5	
Method Blank	I < 5	
Method Blank	i 5	
Method Blank	<5	
Method Blank	<5	
Method Blank	< 5	
Method Blank	l	< 0.02
Method Blank	I	< 0.02

Quality Analysis ...



Innovative Technologies

Report No.:	A20-01649
Report Date:	25-Feb-20
Date Submitted:	10-Feb-20
Your Reference:	Feb 10/20

Pelangio Exploration Inc 1080 Michelano Drive Timmins Ontario Canada

ATTN: Kevin Filo

CERTIFICATE OF ANALYSIS

220 Rock samples were submitted for analysis.

 The following analytical package(s) were requested:

 1A2-50-Timmins
 QOP AA-Au

 1A3-50-Timmins
 QOP AA-Au

|QOP AA-Au (Au - Fire Assay AA) |QOP AA-Au (Au - Fire Assay Gravimetric) Testing Date: 2020-02-24 11:39:21 2020-02-25 14:58:13

REPORT A20-01649

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

CERTIFIED BY:

Emmanuel Eseme , Ph.D. Quality Control Coordinator

ACTIVATION LABORATORIES LTD. 1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1 TELEPHONE + 175 264-0123 or +1.888.228.5227 FAX +1.905.648.9613 E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

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Analyte Symbol Unit Symbol Lower Limit Method Code	ppb 5	Au g/tonne 0.02 FA-
20679	264	GRA
20679		
20680	< 5 6	
20682	31	
20683	27	
20684	8	-
20685	12	
20686	27	•
20687	17	•
20688	34	•
20689	604	
20690	1120	
20691	33	•
20692	14	•
20693	15	
20694	11	•
20695	47	i
20696	76	i
20697	12	i
20698	86	1
20699	14	l
20700	9	
20701	28	1
20702	8	1
20703	15	
20704	12	l
20705	12	
20706	8	
20707	1090	
20708	68	
20709	20	-
20710	5	-
20711	17	
20712 20713	92	•
20713	80 113	•
20715	298	-
20716	290	-
20717	> 5000	•
20718	73	•
20719	78	
20720	1170	-
20721	272	
20722	24	-
20723	136	•
20724	794	•
20725	11	•
20726	8	-
20727	6	I
20728	35	I
		I

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-
		GRA
20729	17	
20730	6	
20731	9	
20732	20	
20733	< 5	
20734	11	
120735	20	
20736		
	57	
20737	15	
20738		
20739	6	
20740	1090	
20741	6	
20742	< 5	
20743	< 5	
20744	7	
20745	9	
20746	6	
20747	< 5	
20748	6	
20749	5	
20750	6	
20751	6	
20752	< 5	
20753	8	
20754	8	
20755	< 5	
20756	< 5	
20757	< 5	
20758	< 5	
20759	< 5	
20760	< 5	
20761	6	
20762	6	
20763	5	
20764	6	
20765	6	
20766	< 5	
	< 5	
20767		
20768	8	
20769	13	
20770	1140	
20771	6	
20772	< 5	
20773	< 5	
20774	6	
20775	5	
20776	5	
20777	6	
20778	< 5	
i	-	

Results

Activation Laboratories Ltd.

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Analyte Symbol Unit Symbol Lower Limit Method Code	Au Ippb 5 FA-AA	Au g/tonne 0.02 FA- GRA
20779	8	
20780	< 5	
20781	< 5	
20782	< 5	
20783 20784	8 < 5	
20785		
20786	< 5 < 5	
20787	< 5	
20788	< 5	
20789	6	
20790	ہ 1140	
20791	6	
20792	< 5	
20793	 < 5 6	
20794	< 5	
20795	7	
20796	< 5	
20797	< 5	
20798	< 5	
20799	10	
20800	< 5	
20801	< 5	
20802	12	
20803	10	
20804	9	
20805	5	
20806	18	
20807	6	
20808	331	
20809	193	
20810	6	
20811	73	
20812	8	
20813	6	
20814	9	
20815	19	
20816	9	
20817	9	
20818	10	
20819	6	
20820	1140	
20821	19	
20822	7	
20823	11	
20824	10	
20825	9	
20826	11	
20827	7	
20828	47	

Results

Activation Laboratories Ltd.

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Analyte Symbol Unit Symbol Lower Limit Method Code 20829	Au ppb 5 FA-AA	Au g/tonne 0.02 FA- GRA
20830	< 5	
20831	7	
20832	< 5	
20833	< 5	
20834	< 5	
20835	< 5	
20836	< 5	
20837	< 5	
20838	< 5	
20839	5	
20840	1120	
20841	24	
20842	< 5	
20843	< 5	
20844 20845	< 5 < 5	
20846	< 5	
20847	5	
20848	7	
20849	12	
20850	14	
20851	6	
20852	25	
20853	12	
20854	9	
20855	7	
20856	9	
20857	10	
20858	16	
20859	6	
20860	< 5	
20861	12	
20862 20863	19	
20864	204 9	
20865	9	
20866	7	
20867	< 5	
20868	< 5	
20869	< 5	
20870	1100	
20871	< 5	
20872	< 5	
20873	< 5	
20874	< 5	
20875	< 5	
20876	< 5	
20877	6	
20878	6	

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Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-
****		GRA
20879	< 5	2
20880	< 5	
20881	< 5	1
20882	< 5	
20883	< 5	1
20884	< 5	
20885	< 5	1
20886	< 5	
20887	7	1
20888	< 5	
20889	< 5	
20890	1120	
20891	6	
20892	5	1
20893	5	
20894	< 5	1
20895	< 5	Í
20896	5	1
20897	< 5	1
20898	12	l

Analyte Symbol Unit Symbol Lower Limit Method Code	Au ppb 5 FA-AA	Au g/tonne 0.02 FA- GRA
SN75 Meas		9.01
SN75 Cert		8.67
OREAS 217 (Fire	325	
Assay) Meas	220	
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire	351	
Assay) Meas		
OREAS 217 (Fire	338	
Assay) Cert OREAS 217 (Fire	348	
Assay) Meas	040	
OREAS 217 (Fire	338	
Assay) Cert		
OREAS 217 (Fire Assay) Meas	355	
OREAS 217 (Fire	338	
Assay) Cert	000	
OREAS 217 (Fire	356	
Assay) Meas OREAS 217 (Fire	338	
Assay) Cert	330	
OREAS 217 (Fire	343	
Assay) Meas		
OREAS 217 (Fire Assay) Cert	338	
OREAS 217 (Fire	349	
Assay) Meas		
OREAS 217 (Fire	338	
Assay) Cert OREAS 217 (Fire	358	
Assay) Meas	000	
OREAS 217 (Fire	338	
Assay) Cert		447
OREAS 257 Meas		14.7
OREAS 257 Cert	37	14.18
20688 Orig 20688 Dup	32	
20698 Orig	76	
20698 Dup	97	
20708 Orig	70	
20708 Dup	67	
20723 Orig	125	
20723 Dup	147	
20728 Orig	35	
20728 Split PREP	34	
DUP	-	
20732 Orig	22	
20732 Dup	18	
20742 Orig	< 5	
20742 Dup	11	
20757 Orig	< 5 < 5	
20757 Dup 20767 Orig	< 5 < 5	
20767 Ong 20767 Dup	< 5	
	τ	

Analyte Symbol	Au	Au
Unit Symbol	daal	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
20777 Orig	6	GNA
20777 Dup	7	
20778 Orig	< 5	
20778 Split PREP	27	
DUP	21	
20791 Orig	7	
20791 Dup	6	
20801 Orig	< 5	
20801 Dup	< 5	
20811 Orig	76	
20811 Dup	71	
20826 Orig	10	
20826 Dup	12	
20828 Orig	47	
20828 Split PREP	50	
DUP	-	
20835 Orig	< 5	
20835 Dup	7	
20845 Orig	< 5	
20845 Dup	< 5	
20860 Orig	< 5 < 5	
20860 Dup	< 5	
20871 Orig 20871 Dup	< 5	
20878 Orig	< 5	
20878 Split PREP	6	
DUP	0	
20879 Orig	< 5	
20879 Dup	< 5	
20894 Orig	< 5	
20894 Dup	< 5	
Method Blank	5	
Method Blank	5	
Method Blank	< 5	
Method Blank	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	5	
Method Blank	5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank		< 0.02
Method Blank	< 5	
Method Blank	< 5	

Quality Analysis



Innovative Technologies

Report No.:A20-01793Report Date:05-Mar-20Date Submitted:12-Feb-20Your Reference:Grenfell

Pelangio Exploration Inc 1080 Michelano Drive Timmins Ontario Canada

ATTN: Kevin Filo

CERTIFICATE OF ANALYSIS

122 Rock samples were submitted for analysis.

The following analytical package(s) were requested: 1A2-50-Timmins

QOP AA-Au (Au - Fire Assay AA)

Testing Date: 2020-03-02 10:33:36

REPORT A20-01793

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

CERTIFIED BY:

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Emmanuel Eseme , Ph.D. Quality Control Coordinator

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		Results	Activation Laboratories Ltd.	Report: A20-01793
Analyte Symbol	Au			
Unit Symbol	ppb			
Lower Limit	15			
Method Code	FA-AA			
20899	8			
20900	29			
20901	27			
20902	, < 5			
20903	6			
20904	7			
20905	85			
20906	22			
20907	9			
20908	< 5			
20909	9			
20910	< 5			
20911	6			
20912 20913	43			
20913	33			
20915	95			
20916	25			
20917	374			
20918	44			
20919	140			
20920	1070			
20921	214			
20922	492			
20923	1270			
20924	1940			
20925	91			
20926	33			
20927	5			
20928	26			
20929	103			
20930	< 5			
20931	34			
20932 20933	12 37			
20933 20934	3/			
20935	14			
20936	6			
20937	54			
20938	14			
20939	22			
20940	1060			
20941	28			
20942	64			
20943	33			
20944	230			
20945	2450			
20946	34			
20947	364			
20948	1 113			
20949	1050			

		Results	ACTIVATION LADORATORIES LIT	. Report. A20-01755
alyte Symbol	Au			
it Symbol	ppb			
wer Limit	рро 5			
thod Code	FA-AA			
950	- T37			
951	6			
952				
	10 7			
)953)954	219			
)955	< 5			
0956 0957	864			
	68			
20958	195			
0959	25			
0960	< 5			
20961	32			
0962	15			
0963	9			
0964	11			
0965	8			
0966	590			
0967	27			
0968	34			
0969	59			
0970	1060			
0971	32			
0972	6			
0973	< 5			
0974	147			
20975	29			
20976	108			
20977	< 5			
0978	5			
20979 20980	11			
:0980 :0981	< 5			
	104			
20982	8			
20983 20984	10			
	< 5			
0985	44			
0986 0987	29 37			
20988 20989	43 24			
)990)989	24 1080			
0990 0991	1080			
)992)993	23 31			
0993 0994	73			
10994 10995	10			
20995	1030			
0998 0997	40			
20998	40 153			
0999	1560			
1000	18			
1000	10			

Report: A20-01793

Results

Results

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Analyte Symbol	Au
Unit Symbol	lppb
Lower Limit	5
Method Code	FA-AA
OREAS 217 (Fire	327
Assay) Meas	
OREAS 217 (Fire Assay) Cert	338
OREAS 217 (Fire	322
Assay) Meas	
OREAS 217 (Fire	338
Assay) Cert OREAS 217 (Fire	320
Assay) Meas	020
OREAS 217 (Fire	338
Assay) Cert OREAS 217 (Fire	325
Assay) Meas	325
OREAS 217 (Fire	338
Assay) Cert	
OREAS 217 (Fire Assay) Meas	327
OREAS 217 (Fire	338
Assay) Cert	
20908 Orig	< 5
20908 Dup	< 5
20918 Orig	39
20918 Dup	49 25
20928 Orig 20928 Dup	25 26
20928 Dup 20943 Orig	30
20943 Dup	35
20948 Orig	113
20948 Split PREP	124
DUP	
20952 Orig	11
20952 Dup	8
20962 Orig	15
20962 Dup 20977 Orig	14 < 5
20977 Dup	< 5
20987 Orig	37
20987 Dup	37
20997 Orig	36
20997 Dup	44
20998 Orig	153
20998 Split PREP	154
DUP 21011 Orig	19
21011 Dup	21
Method Blank	< 5

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Analyte Symbol	Au
Unit Symbol	[ppb]
Lower Limit	5
Method Code	FA-AA
Method Blank	< 5
Method Blank	< 5

Quality Analysis ...



Innovative Technologies

Report No.:A20-01900Report Date:05-Mar-20Date Submitted:14-Feb-20Your Reference:Grenfell

Pelangio Exploration Inc 1080 Michelano Drive Timmins Ontario Canada

ATTN: Kevin Filo

CERTIFICATE OF ANALYSIS

81 Rock samples were submitted for analysis.

 The following analytical package(s) were requested:

 1A2-50-Timmins

 QOP AA-Au (Au - Fire Assay AA)

Testing Date: 2020-03-04 15:30:54

REPORT A20-01900

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

CERTIFIED BY:

Emmanuel Eseme , Ph.D. Quality Control Coordinator

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		Results	Activation Laboratories Ltd.	Report: A20-01900
Analyte Symbol	Au			
Unit Symbol	ppb			
Lower Limit	5			
Method Code	FA-AA			
21021	6			
21022	16			
21023	658			
21024	421			
21025	20			
21026	10			
21027	5			
21028	36			
21029	125			
21030	< 5			
21031	8			
21032	< 5			
21033	12			
21034	24			
21035	< 5			
21036	6			
21037	8			
21038	10			
21039	13			
21040	1100			
21041	16			
21042	7			
21043	87			
21044	7			
21045	76			
21046	231			
21047	21			
21048	14			
21049	773			
21050	33			
21051	13			
21052	143			
21053	13			
21054	18			
21055	14			
21056	17			
21057	406			
21058	236			
21059	882 9			
21060	9 123			
21061 21062				
21062	36 1060			
21063	338			
21065	19			
21065	19			
21067	13			
21067	17			
21069	50			
21009	1080			

 Results

Activation Laboratories Ltd.

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
21072	24
21073	34
21074	11
21075	54
21076	54
21077	127
21078	72
21079	22
21080	< 5
21081	212
21082	152
21083	7
21084	< 5
21085	5
21086	10
21087	7
21088	8
21089	5
21090	1110
21091	< 5
21092	13
21093	5
21094	6
21095	6
21096	6
21097	< 5
21098	< 5
21099	< 5
21100	5
21101	< 5

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Analuta Cumbal	A
Analyte Symbol Unit Symbol	Au
Lower Limit	ppb 5
Method Code	•
OREAS 217 (Fire	FA-AA 340
Assay) Meas	340
OREAS 217 (Fire Assay) Cert	338
OREAS 217 (Fire Assay) Meas	344
OREAS 217 (Fire Assay) Cert	338
OREAS 217 (Fire Assay) Meas	349
OREAS 217 (Fire Assay) Cert	338
21030 Orig	< 5
21030 Dup	< 5
21041 Orig	17
21041 Dup	14
21050 Orig	32
21050 Dup	34
21065 Orig	20
21065 Dup	18
21071 Orig	23
21071 Split PREP DUP	20
21074 Orig	10
21074 Dup	12
21084 Orig	< 5
21084 Dup	5
21099 Orig	< 5
21099 Dup	< 5
Method Blank	< 5

Appendix 3: Specifications for Standard Oreas 221

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ORE RESEARCH & EXPLORATION P/L ABN 28 006 859 856 37A Hosie Street · Bayswater North · VIC 3153 · AUSTRALIA • 61 3 9729 0333 * 61 3 9729 8338 (i) info@ore.com.au @www.ore.com.au

CERTIFICATE OF ANALYSIS FOR

Gold Ore (Andy Well Gold Mine, Western Australia) CERTIFIED REFERENCE MATERIAL OREAS 221



Document COA-1287-OREAS221-R1

(Template:BUP-70-10-01 Rev:2:0)

25-October-2018

Constituent	Certified Value	SD	291 1 982 6 1 6 6 6 6	ence Limits High	A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	ance Limits High
Pb Fire Assay		-				
Au, Gold (ppm)	1.062	0.036	1.051	1.074	1.057*	1.067*
Aqua Regla Digestion (sample	weights 10	50g)				
Au, Gold (ppm)	1.042	0.039	1.026	1.058	1.037*	1.047*
Gas / Liquid Pychometry						
SG, Specific Gravity (Unity)	2.98	0.053	2.95	3.00	2.96	3.00

Table 1. Certified Values, SDs, 95% Confidence and Tolerance Limits for OREAS 221.

SI unit equivalents: ppm, parts per million \equiv mg/kg \equiv µg/g \equiv 0.0001 wt.% \equiv 1000 ppb, parts per billion.

*Gold Tolerance Limits for typical 30g fire assay and 25g aqua regia digestion methods are determined from 20 x 85mg INAA results and the Sampling Constant (Ingamells & Switzer, 1973).

Note 1: intervals may appear asymmetric due to rounding.

Note 2: the number of decimal places quoted does not imply accuracy of the certified value to this level but are given to minimise rounding errors when calculating 2SD and 3SD windows.

INTRODUCTION

OREAS reference materials are intended to provide a low cost method of evaluating and improving the quality of analysis of geological samples. To the geologist they provide a means of implementing quality control in analytical data sets generated in exploration from the grass roots level through to prospect evaluation, and in grade control at mining operations. To the analyst they provide an effective means of calibrating analytical equipment, assessing new techniques and routinely monitoring in-house procedures.

SOURCE MATERIALS

Certified Reference Material (CRM) OREAS 221 was prepared from a blend of Archean greenstone-hosted Wilber Lode primary ore from the Andy Well Gold Mine and barren Cambrian greenstone sourced from a quarry north of Melbourne, Australia. The Wilber Lode is a shear-hosted, narrow vein, quartz lode-style gold deposit situated within the Meekatharra-Wydgee greenstone belt in the Archean Yilgarn Craton of Western Australia. The common primary mineral assemblage, as stated by Mason and Harris (2011, 2012, cited in Hingston et al, 2014), is quartz, calcite, chlorite, fuchsite, pyrite, galena, sphalerite, chalcopyrite and gold. The host rock consists of a complex sequence of Archean meta-basalt and meta-porphyritic rocks derived from a primary mineralogy of albite, actinolite, chlorite, sericite, biotite, calcite, zoisite, muscovite, quartz and titanate. The Andy Well deposit is located approximately 45km north of Meekatharra in the Murchison region of Western Australia.

The approximate major and trace element composition of OREAS 221 is provided in Table 2. The non-certified values contained in this table are the means of duplicate assays from one laboratory.

COA-1287-OREAS221-R1



COMMINUTION AND HOMOGENISATION PROCEDURES

The material constituting OREAS 221 was prepared in the following manner:

- Drying to constant mass at 105°C;
- Crushing and milling of the barren materials to 98% minus 75 microns;
- Crushing and milling of the ore material to 100% minus 30 microns;
- Blending in appropriate proportions to achieve the desired grade;
- Packaging in 60g units sealed in laminated foil pouches and 1kg units in plastic jars.

ANALYTICAL PROGRAM

Thirty commercial analytical laboratories participated in the program to certify gold (as reported in Table 1) by the following methods:

- Gold via 25-50g fire assay with AAS (24 labs) or ICP-OES (4 labs) finish;
- Instrumental neutron activation analysis for Au on 20 x 1g subsamples to confirm homogeneity (1 laboratory).
- Gold via 15-50g aqua regia digestion with ICP-MS (13 labs), AAS (7 labs) or ICP-OES (1 lab) finish. It is important to note that in the analytical industry there is no standardisation of the aqua regia digestion process. Aqua regia is a partial empirical digest and differences in recoveries for various analytes are commonplace. These are caused by variations in the digest conditions which can include the ratio of nitric to hydrochloric acids, acid strength, temperatures, leach times and secondary digestions.
- Specific gravity by gas (12 labs) or liquid (4 labs) pycnometry.

For the round robin program twenty 1.5kg test units were taken at predetermined intervals during the bagging stage, immediately following final blending, and are considered representative of the entire batch. The six samples received by each laboratory were obtained by taking two 110g scoop splits from each of three separate 1kg test units. This format enabled nested ANOVA treatment of the results to evaluate homogeneity, i.e. to ascertain whether between-unit variance is greater than within-unit variance.

Table 1 presents the certified values together with their associated 1SD's, 95% confidence and tolerance limits and Table 2 shows 66 indicative values for major and trace element composition. Tabulated results of all elements (including Au INAA analyses) together with uncorrected means, medians, standard deviations, relative standard deviations and percent deviation of lab means from the corrected mean of means (PDM³) are presented in the detailed certification data for this CRM (OREAS 221 DataPack -1.1.181025_100056.xlsx).

Results are also presented in scatter plots for gold by fire assay and aqua regia digestion (Figures 1 and 2, respectively) together with ± 3 SD (magenta) and ± 5 % (yellow) control lines and certified value (green line). Accepted individual results are coloured blue and individual and dataset outliers are identified in red and violet, respectively.



Pb Fire Ass Pd	ppb	Value 9.17	Constituent	Unit	Value	Constituent	Unit	Value
Pd	ppb	9.17		1.000	de 'Attaile of head litter.			COMPANY CALL STORY
		9.17						
The same of the same shall be a second shall be	S-SID-	<i>v</i>	Pt	ppb	9.17			
Borate Eusie	UII ANIA							
Al ₂ O ₃	wt.%	13.30	K₂O	wt.%	0.285	P ₂ O ₅	wt.%	0.101
CaO	wt.%	9.80	MgO	wt.%	7.13	S	wt.%	0.197
Cl	ppm	10.0	MnO	wt.%	0.180	SiO ₂	wt.%	50.15
Fe ₂ O ₃	wt.%	11.70	Na ₂ O	wt.%	2.83	TiO ₂	wt.%	1.08
Thermograv	/imetry							
LOI	wt.%	3.36						
Laser Ablati	ion IÇP-	MS						
Ag	ррл	0.250	Hf	ppm	1.86	Sm	ppm	2.34
As	ppm	9.10	Ho	ppm	0.82	Sn	ppm	1.50
Ba	ppm	150	ln	ppm	0.075	Sr	ppm	111
Be	ppm	0.50	La	ppm	4.12	Та	ppm	0.19
Bi	ppm	0. 1 0	Lu	ppm	0.30	Тъ	ppm	0.58
Cd	ppm	0.075	Мп	wt%	0.146	Te	ppm	0.30
Се	ppm	9.9 1	Мо	ppm	1.50	Th	ppm	0.43
Со	ppm	47.9	Nb	ppm	3.43	Ti	wt.%	0.636
Cr	ppm	254	Nd	ppm	8.12	TÌ	ppm	< 0.2
Cs	ppm	0.19	Ni	ppm	111	Tm	ppm	0.31
Cu	ppm	152	Pb	ppm	5.50	U.	ppm	0. 0 25
Dy	ppm	3.53	Pr	ppm	1.55	V	ppm	306
Er	ppm	2.51	Rb	ppm	5.35	. W	ppm	1.90
Eu	ppm	0.89	Re	ppm	0.008	Y	ppm	22.5
Ga	ppm	14.8	Sb	ppm	0.50	Yb	ppm	2.47
Gd	ppm	2.93	Sc	ppm	43.5	Zn	ppm	88
Ge	ppm	1.63	Se	ppm	< 5	Zr	ppm	63

Table 2. Indicative Values for OREAS 221.

SI unit equivalents: ppm, parts per million \equiv mg/kg \equiv µg/g \equiv 0.0001 wt.% \equiv 1000 ppb, parts per billion. Note: the number of significant figures reported is not a reflection of the level of certainty of stated values. They are instead an artefact of ORE's in-house CRM-specific LIMS.

STATISTICAL ANALYSIS

Certified Values, Confidence Limits, Standard Deviations and Tolerance Limits (Table 1) have been determined for each analyte following removal of individual, laboratory dataset (batch) and 3SD outliers (single iteration).

For individual outliers within a laboratory batch the z-score test is used in combination with a second method that determines the per cent deviation of the individual value from the batch median. Outliers in general are selected on the basis of z-scores > 2.5 and with per cent deviations (i) > 3 and (ii) more than three times the average absolute per cent deviation for the batch. In certain instances statistician's prerogative has been employed in discriminating outliers.



Each laboratory data set mean is tested for outlying status based on z-score discrimination and rejected if > 2.5. After individual and laboratory data set (batch) outliers have been eliminated a non-iterative 3 standard deviation filter is applied, with those values lying outside this window also relegated to outlying status.

Certified Values are the means of accepted laboratory means after outlier filtering. The INAA data (see Table 3) is omitted from determination of the certified value for Au and is used solely for the calculation of Tolerance Limits and homogeneity evaluation of OREAS 221.

95% Confidence Limits are inversely proportional to the number of participating laboratories and inter-laboratory agreement. It is a measure of the reliability of the certified value. A 95% confidence interval indicates a 95% probability that the true value of the analyte under consideration lies between the upper and lower limits. 95% Confidence Limits should not be used as control limits for laboratory performance.

Indicative (uncertified) values (Table 2) are provided for the major and trace elements determined by borate fusion XRF (Al_2O_3 to TIO_2), laser ablation with ICP-MS (Ag to Zr), LOI at 1000°C and C + S by infrared combustion furnace and are the means of duplicate assays from Bureau Veritas, Perth. Additional indicative values by other analytical methods are present where the number of laboratories reporting a particular analyte is insufficient (< 5) to support certification or where inter-laboratory consensus is poor.

Standard Deviation values (1SDs) are reported in Table 1 and provide an indication of a level of performance that might reasonably be expected from a laboratory being monitored by this CRM in a QA/QC program. The SD's take into account errors attributable to measurement uncertainty and CRM variability. For an effective CRM the contribution of the latter should be negligible in comparison to measurement errors. The SD values thus include all sources of measurement uncertainty: between-lab variance, within-run variance (precision errors) and CRM variability. OREAS prepared reference materials have a level of homogeneity such that the observed variance from repeated analysis has its origin almost exclusively in the analytical process rather than the reference material itself.

The SD for each analyte's certified value is calculated from the same filtered data set used to determine the certified value, i.e. after removal of any individual, lab dataset (batch) and 3SD outliers (single iteration). These outliers can only be removed after the absolute homogeneity of the CRM has been independently established, i.e. the outliers must be confidently deemed to be analytical rather than arising from inhomogeneity of the CRM. The standard deviation is then calculated for each analyte from the pooled accepted analyses generated from the certification program.

In the application of SD's in monitoring performance it is important to note that not all laboratories function at the same level of proficiency and that different methods in use at a particular laboratory have differing levels of precision. Each laboratory has its own inherent SD (for a specific concentration level and analyte-method pair) based on the analytical process and this SD is not directly related to the round robin program.

The majority of data generated in the round robin program was produced by a selection of world class laboratories. The SD's thus generated are more constrained than those that would be produced across a randomly selected group of laboratories. To produce more generally achievable SD's the 'pooled' SD's provided in this report include inter-lab bias. This 'one size fits all' approach may require revision at the discretion of the QC manager concerned following careful scrutiny of QC control charts.



Homogeneity Evaluation

The homogeneity of gold has been determined by INAA using the reduced analytical subsample method which utilises the known relationship between standard deviation and analytical subsample weight (Ingamells and Switzer, 1973). In this approach the sample aliquot is substantially reduced to a point where most of the variability in replicate assays should be due to inhomogeneity of the reference material and measurement error becomes negligible.

Replicate	Au	Au
No	85mg.actual	30g.equivalent*
1	1.062	1.093
2	1.074	1.094
. 3	1.081	1.094
4	1.104	1.096
5	1.121	1.096
6	1.039	1.092
7	1.074	1 094
8	.1.107	1.096
9	1.095	1.095
10	1.134	1.097
11	1.088	1.095
12	1.098	1,095
13	1.113	1.096
14	1.057	1.093
15	1.116	1 096
16	1.070	1.094
17	1.150	1,098
18	1.129	1.097
19	1.072	1:094
20	1.119	1.096
Mean	1.095	1.095
Median	1.096	1.095
Std Dev.	0.029	0.002
Rel Std Dev	2.64%	0 140%

Table 3. Neutron Activation Analysis of Au (in ppm) on 20 x 85mg subsamples showing the equivalent results scaled to a 30g sample mass typical of fire assay determination.

RSD@85ma

5

*Results calculated for a 30g equivalent sample mass using the formula: $x^{30g Eq} = \frac{(x^{INAA} - \bar{X}) \times RSD@30g}{2} + \bar{X}$ where $x^{30g Eq} =$ equivalent result calculated for a 30g sample mass

 (x^{INAA}) = raw INAA result at 85mg

 $\dot{\bar{X}}$ = mean of 85mg INAA results

SAME

Table 3 above shows the INAA data determined on 20 x 85mg subsamples of OREAS 221. A subsample weight of 85 milligrams was employed and the 1RSD of 0.14% calculated for a 30g fire assay or aqua regia sample (2.64% at 85mg weights) confirms the high level of gold homogeneity in OREAS 221.

Please note that these RSD's and tolerance limits pertain to the homogeneity of the CRM only and should not be used as control limits for laboratory performance.

The gold homogeneity of OREAS 221 has also been evaluated in a nested ANOVA of the round robin program. Each of the thirty round robin laboratories received six samples per



1

CRM and these samples were made up of paired samples from three different, nonadjacent sampling intervals. The purpose of the ANOVA evaluation is to test that no statistically significant difference exists in the variance between-units to that of the variance within-units. This allows an assessment of homogeneity across the entire prepared batch of OREAS 221. The test was performed using the following parameters:

- Gold fire assay 180 samples (30 laboratories each providing analyses on 3 pairs of samples);
- Gold aqua regia digestion 120 samples (20 laboratories each providing analyses on 3 pairs of samples);
- Null Hypothesis, H₀: Between-unit variance is no greater than within-unit variance (reject H₀ if *p*-value < 0.05);
- Alternative Hypothesis, H₁: Between-unit variance is greater than within-unit variance.

P-values are a measure of probability where values less than 0.05 indicate a greater than 95% probability that the observed differences in within-unit and between-unit variances are real. The dataset was filtered for both individual and laboratory data set (batch) outliers prior to the calculation of the *p*-value. This process derived *p*-values of 0.47 for Au by fire assay and 0.82 for Au by aqua regia digestion. Both p-values are insignificant and the Null Hypothesis is retained.

It is important to note that ANOVA is not an absolute measure of homogeneity. Rather, it establishes whether or not the analytes are distributed in a similar manner throughout the packaging run of OREAS 221 and whether the variance between two subsamples from the same unit is statistically distinguishable to the variance from two subsamples taken from any two separate units. A reference material therefore, can possess poor absolute homogeneity yet still pass a relative homogeneity test if the within-unit heterogeneity is large and similar across all units.

Based on the statistical analysis of the results of the inter-laboratory certification program it can be concluded that OREAS 221 is fit-for-purpose as a certified reference material (see 'Intended Use' below).

Table 4 shows **Performance Gates** calculated for two and three standard deviations. As a guide these intervals may be regarded as warning or rejection for multiple 2SD outliers, or rejection for individual 3SD outliers in QC monitoring, although their precise application should be at the discretion of the QC manager concerned. A second method utilises a 5% window calculated directly from the certified value.

Standard deviation is also shown in relative percent for one, two and three relative standard deviations (1RSD, 2RSD and 3RSD) to facilitate an appreciation of the magnitude of these numbers and a comparison with the 5% window. Caution should be exercised when concentration levels approach lower limits of detection of the analytical methods employed as performance gates calculated from standard deviations tend to be excessively wide whereas those determined by the 5% method are too narrow. One approach used at commercial laboratories is to set the acceptance criteria at twice the detection level (DL) \pm 10%.

i.e. Certified Value \pm 10% \pm 2DL (adapted from Govett, 1983)



Absolute Standard Deviations Relative Standard Deviations window Certified Constituen Value 3SD IRSD High High Low Pb Eire Assa 1.062 0.036 0.989 0.953 3.43% 6.86% 10.28% Au, ppm 1.135 1.171 1.009 1.115 Aqua Regia Digestion 0.039 7.55% 11.33% 0.990 0.963 Au, ppm 1.042 1.121 0.924 1.160 3.78% 1.094 Gas:/Liquid.Pycnometr SG, Unity 2.98 0.053 2,87 3.08 2.82 1.77% 3.53% 5.30% 2.83 3.13 3.14

Table 4. Pooled-Lab Performance Gates for OREAS 221.

SI unit equivalents: ppm, parts per million = mg/kg = $\mu g/g = 0.0001$ wt.% = 1000 ppb, parts per billion.

Note 1: intervals may appear asymmetric due to rounding.

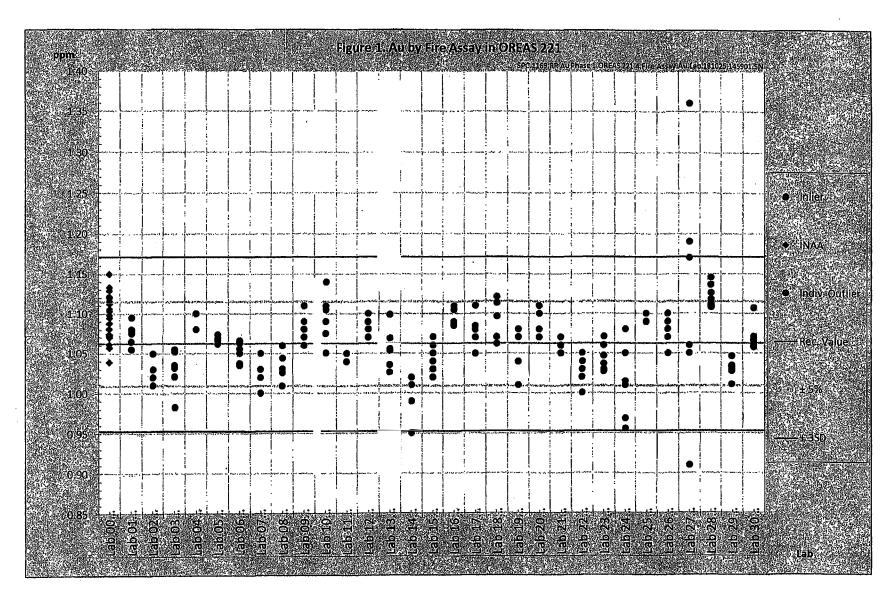
Note 2: the number of decimal places quoted does not imply accuracy of the certified value to this level but are given to minimise rounding errors when calculating 2SD and 3SD windows.

PARTICIPATING LABORATORIES

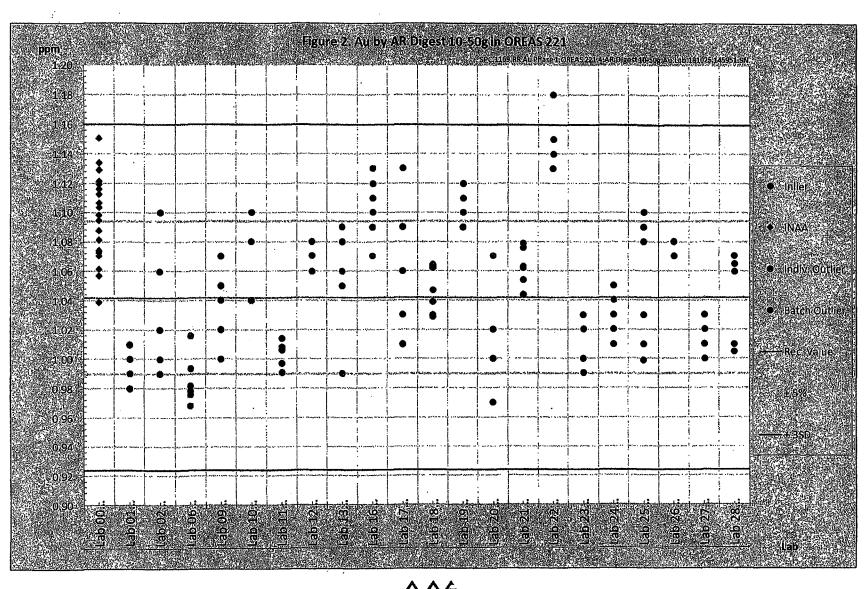
- 1. Actlabs, Ançaster, Ontario, Canada
- 2. ALS, Brisbane, QLD, Australia
- 3. ALS, Lima, Peru
- 4. ALS, Loughrea, Galway, Ireland
- 5. ALS, Perth, WA, Australia
- 6. ALS, Vancouver, BC, Canada
- 7. Bureau Veritas, Abidjan, Cote D'ivoire
- 8. Bureau Veritas Commodities Canada Ltd, Vancouver, BC, Canada
- 9. Bureau Veritas Geoanalytical, Adelaide, SA, Australia
- 10. Bureau Veritas Geoanalytical, Perth, WA, Australia
- 11. Inspectorate (BV), Lima, Peru
- 12. Intertek Genalysis, Adelaide, SA, Australia
- 13. Intertek Genalysis, Perth, WA, Australia
- 14. Intertek Testing Services, Cupang, Muntinlupa, Philippines
- 15. MinAnalytical Services, Perth, WA, Australia
- 16. Nagrom, Perth, WA, Australia
- 17. Newcrest Services Laboratory (NSL), Orange, NSW, Australia
- 18. PT Geoservices Ltd, Cikarang, Jakarta Raya, Indonesia
- 19. PT Intertek Utama Services, Jakarta Timur, DKI Jakarta, Indonesia
- 20. SGS, Randfontein, Gauteng, South Africa
- 21. SGS Australia Mineral Services, Kalgoorlie, WA, Australia
- 22. SGS Australia Mineral Services, Perth, WA, Australia
- 23. SGS del Peru, Lima, Peru
- 24. SGS Lakefield Research Ltd, Lakefield, Ontario, Canada
- 25. SGS Mineral Services, Townsville, QLD, Australia
- 26. Shiva Analyticals Ltd, Bangalore North, Karnataka, India
- 27. Sucofindo Mineral Lab, Cibitung, West Java, Indonesia
- 28. Sucofindo Mineral Lab, Timika, Papua, Indonesia

Please note: The above numbered alphabetical list of participating laboratories does not reflect the Lab ID numbering on the scatter plots below.











PREPARER AND SUPPLIER

Certified reference material OREAS 221 is prepared, certified and supplied by:



ORE Research & Exploration Pty Ltd	Tel:	+613-9729 0333
37A Hosie Street	Fax	+613-9729 8338
Bayswater North VIC 3153	Web:	www.ore.com.au
AUSTRALIA	Email:	info@ore.com.au

It is available in unit sizes of 60g (single-use laminated foil pouches) and 1kg (plastic jars).

METROLOGICAL TRACEABILITY

The analytical samples were selected in a manner to represent the entire batch of prepared CRM. This 'representivity' was maintained in each submitted laboratory sample batch and ensures the user that the data is traceable from sample selection through to the analytical results that underlie the consensus values. Each analytical data set has been validated by its assayer through the inclusion of internal reference materials and QC checks during analysis.

The laboratories were chosen on the basis of their competence (from past performance in inter-laboratory programs undertaken by ORE Pty Ltd) for a particular analytical method, analyte or analyte suite, and sample matrix. Most of these laboratories have and maintain ISO 17025 accreditation. The certified values presented in this report are calculated from the means of accepted data following robust statistical treatment as detailed in this report.

Guide ISO/TR 16476:2016, section 5.3.1 describes metrological traceability in reference materials as it pertains to the transformation of the measurand. In this section it states, "Although the determination of the property value itself can be made traceable to appropriate units through, for example, calibration of the measurement equipment used, steps like the transformation of the sample from one physical (chemical) state to another cannot. Such transformations may only be compared with a reference (when available), or among themselves. For some transformations, reference methods have been defined and may be used in certification projects to evaluate the uncertainty associated with such a transformation. In other cases, only a comparison among different laboratories using the same method is possible. In this case, certification takes place on the basis of agreement among independent measurement results (see ISO Guide 35:2006, Clause 10)."

COMMUTABILITY

The measurements of the results that underlie the certified values contained in this report were undertaken by methods involving pre-treatment (digestion/fusion) of the sample. This served to reduce the sample to a simple and well understood form permitting calibration using simple solutions of the CRM. Due to these methods being well understood and highly effective, commutability is not an issue for this CRM. All OREAS CRMs are sourced from natural ore minerals meaning they will display similar behaviour as routine 'field' samples in the relevant measurement process. Care should be taken to ensure 'matrix matching' as close as practically achievable. The matrix and mineralisation style of the CRM is described in the 'Source Material' section and users should select appropriate CRMs matching these attributes to their field samples.



INTENDED USE

OREAS 221 is intended to cover all activities needed to produce a measurement result. This includes extraction, possible separation steps and the actual measurement process (the signal producing step). OREAS 221 may be used to calibrate the entire procedure by producing a pure substance CRM transformed into a calibration solution.

OREAS 221 is intended for the following uses:

- For the monitoring of laboratory performance in the analysis of gold by fire assay, gold by aqua regia digestion and specific gravity by pycnometry in geological samples;
- For the verification of analytical methods (gold fire assay, gold aqua regia digestion and specific gravity by pycnometry);
- For the calibration of instruments used in the determination of gold or specific gravity.

STABILITY AND STORAGE INSTRUCTIONS

OREAS 221 has been prepared from primary gold ore diluted with barren greenstone. It is low in reactive sulphide (~0.20 wt.%) and in its unopened state and under normal conditions of storage has a shelf life beyond ten years. Its stability will be monitored at regular intervals and purchasers notified if any changes are observed.

INSTRUCTIONS FOR CORRECT USE

The certified values for OREAS 221 refer to the concentration levels in its packaged state. There is no need for drying prior to weighing and analysis.

HANDLING INSTRUCTIONS

Fine powders pose a risk to eyes and lungs and therefore standard precautions such as the use of safety glasses and dust masks are advised.

LEGAL NOTICE

Ore Research & Exploration Pty Ltd has prepared and statistically evaluated the property values of this reference material to the best of its ability. The Purchaser by receipt hereof releases and indemnifies Ore Research & Exploration Pty Ltd from and against all liability and costs arising from the use of this material and information.

DOCUMENT HISTORY

Revision No	Date	Changes applied
1	25 th Oct, 2018	Replaced original INAA data with new improved INAA data (a more precise method became available).
0	22 nd Dec, 2016	First publication.



QMS ACCREDITED

ORE Pty Ltd is accredited to ISO 9001:2015 by Lloyd's Register Quality Assurance Ltd for its quality management system including development, manufacturing, certification and supply of CRMs.



CERTIFYING OFFICER

 γ_i^{α}

25th October, 2018

Craig Hamlyn (B.Sc. Hons - Geology), Technical Manager - ORE P/L

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Year 2020 Diamond Drilling Program Report

On The

Grenfell Property

Larder Lake Mining Division District of Timiskaming Province of Ontario

For

Pelangio Exploration

Cedar Hill

Connaught, Ontario

Part II of II

Drill Logs

DDH: JS Core Siz		Shaft Area Azimuth/Dip: 20 Tests: see last EOH:60 m.		Grid Location: N/A See UTM Coordinates UTM:560297E 5336213N Nad 83 Zone 17 Date Started: Jan.27 2020 Date Completed: Jan.28 2020 Core Storage: Pelangio Field Office Connaught Onterio.	Drill Compa NPLH Drillin Logged by: K. Filo	ng	Completion Feb.5 2020	of Core Log	ging:					
<i>From</i> 0.00	7o 2.30	Rock Type Casing	Code	Description Note, casing left in hole.	Sample# 	From	<i>T</i> o	Meters	Auppb	Au g/t	Pt ppb	Ptg/t	Pd ppb	Pd g/t
2.30	36.00 	Gabbro 	6G 	This unit has a weakly bleached light grey color on the ldry surface. The unit is mainly coarse grained with some minor fine to medium grained sections. The mineralogical make up of the unit is plagioclase, ferro mag minerals (mainly amphiboles) and some quartz. The unit has some coarse magnetite grains in many instances. The unit is very hard but can be scrathced with a knife with some effort. The unit has no HCL reaction. From 2.3 to 19 meters strongly magnetic but beyond 19 m to 36 m more sporadic response to magnet. Very minimal quartz for quartz calcite veinlets / stringers. Of note is a small quartz calcite stinger from 14.85 to 15 associated with a slip at 10 deg to CA. and a grey black quartz veinlet from 32.90-32.95 at 88 deg to CA. This interval is considered fairly competent in appearance despite a number of slip planes at 5-15 deg to CA. and a number of fractures at 60,45, and 30 deg to CA. Small broken blocky fault zone lat 10 deg to CA from 9.70 to 10 m. Some patchy epidote inoted in unit over very short intervals and a few epidote stringers also present. Sparse pyrite content in this unit estimate of trace to 0.5% maximum. Lower contact ground.	20899 20900 20901 20902 20903 20904 20905 20906 20907 20908 20909 20910 20911 20912 20913 20914 20915 20916 20917 20918 20920 20920 20921 20922 20923	2.30 3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 14.70 15.10 15.10 15.10 21.00 22.50 24.00 25.50 24.00 25.50 30.00 31.50 33.00	1 3.00 1 4.50 1 6.00 1 7.50 1 9.00 1 10.50 1 12.00 1 13.50 1 14.70 1 15.10 1 16.50 1 19.50 21.00 22.50 24.00 25.50 25.50 24.00 25.50 30.00 31.50 33.00 33.00 33.50	I 0.70 I 1.50 I 1.50	8 29 27 < 5	0.008 0.029 0.027 <0.005				
				There is some very fine disseminated pyrite present [throughout the unit, estimate of 2% plus overall, locally 4% [over 10-15 cm intervals. A few very minor quartz carb [microstringers observed, not significant. Relatively [competent unit with a fair number of minor slips at 10-15 [deg to CA. Some fractures generally at 60 deg to CA. Unit [has a weak HCI reaction and it is non magnetic. Unit is of [moderate hardness and relatively easy to scratch with [knife. Lower contact and start of fault at 39.80 marked [by oxidized slip plane oriented at 20 deg to CA.	20924 20924 20925 20926 	33.50 33.50 34.00 35.00	33.30 34.00 35.00 36.00 	0.50 0.50 1.00 1.00 	1270 1940 91 33 	1.27 1.94 0.091 0.033 1 1 1 1 1 1 1 1 1 1 1 1 1				

Fr	rom	To	Rock Type	Code	Description	Sample#		From	i -	То	Meters	dag uA	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	ł
39	9.80	44.60	Major Fault Zone	IFZ	This section of core is basically ground rubble with	20927	1	36.00	1	37.00	l 1.00	5	0.005	1	1	1	I	i i
1		1		Ì	numerous slip planes and some associated gouge.	20928		37.00	ł	38.00	1.00	26	0.026	1	1	1	ł	ſ
i		ł	i	i	Initially from 39.80 to 41 fault is host in diorite dyke	20929		38.00	1	39.00	1.00	103	0.103	1	I	1		1
		I	Ì	i	described immediately above but beyond 41.0 to end of	20930		blank	1		1	< 5	<0.005	1	I.	ł	1	1
Ì		i	i	i	fault zone primarily a coarse grained gabbro similar to that	20931	Ì	39.00	Ì	39.80	0.80	34	0.034	1	1	1	1	1
i		i	i	i	described in intial interval in this hole. Some magnetite	20932	i i	39.80	i	41.00	1.20	12	0.012	İ	1	1	1	Î.
i		i	Ì	i	noted in gabbro within fault zone. Aslo two small diorite	20933	i	41.00	i	42.00	1.00	37	0.037	l	1	1	1	İ
i		i		i	dykes noted within fault intruding gabbro unit from 43	20934	-	42.00	i	43.00	1.00	9	0.009	1	i	i ·	Ì	ł
i		i		i	to 43.50 & 43.95 to 44.10. Lower contact of fault ground.	20935	5 1	43.00	Ì	44.10	1.10	14	0.014	1	1	1	1	1
i		i	Ì	i		20936	i i	44.10	1	44.60	l 0.50	6	0.006	1	1	ł	- · ·	Ì
44	1.60	160.00	Gabbro	i6G	Again a very coarse grained light grey colored gabbro	20937	-	44.60	i	45.00	0.40	54	0.054	i	i	1	Î.	Ì
i		i	1	1	with plagioclase appearing to be more dominant mineral	20938	-	45.00	i	46.50	1.50	14	0.014	i	1	Ì	I	Ì
i			1	ł	and hence the lighter color. The unit is strongy magnetic	20939	•	46.50	i.	48.00	1 1.50	22	0.022	i	i	i	Ì	i
i		i -	1	ł	and magnetite grains visible in unit. The gabbro has no	20940	-	std221	i		1	1060	1.06	i	i	1	i	i
i		1		1	HCL reaction and it is fairly hard and difficult to scratch	20941	-	48.00	i.	49.50	1.50	28	0.028	i	i	i	i	i
i			i I	1	with knife. Some minor patchy epidote alteration noted	20942	-	49.50	•	51.00	1.50	64	0.064	i	i	1	i	-
i		1	I	1	particularily in last few meters of unit and some minor	20943		51.00	ì	52.50	1.50	33	0.033	i	i	Ì	i	1
j		1	1	1	Jepidote stringers as well. A small granitic dyke a couple	20944	-	52.50	i	54.00	1.50	230	0.23	ì	1	1	1	i
i		r I	r I	1	Jof cm wide noted running sub parallel to CA from about	20945	-	54.00	í	54.50	0.50	2450	2.45	í	Í	í	ĺ	í
ì		1		1	53.85 to 54.30. A few quartz and quartz calcite stringers	20946	-	54.50	÷	55.50	1.00	34	0.034	1	i	i	1	i
		1		1	and veinlets noted; not significant for the most part. Most	20947		55.50	i	57.00	1 1.50	364	0.364	1	1	1	1	i
i		1		1	Inotable is a quartz veinlet from 54.40-54.50 at about 10 deg	20948	-	57.00	ł	58.50	1.50	113	0.113	1	1	1	i	i
i		1		1	Ito CA and two smoky black gurtz veinlets less than 0.5 cm	20949		58.50	ł	59.50	1.00	1050	1.05	1	1	1	1	1
		1	1	1	leach that cross cut each other at 59.6 m. These are	20950		59.50	i	60.00	0.50	137	0.137	1	1	1	ł	i
		1		4	Joriented at 45 deg to CA and 30 deg to CA, A few quartz	1 20330	' '	00.00	1	00.00	1 0.50	1 137	0.137	1	1	1	1	i
- i -		1		1	Jankerite stringers noted in last 10 cm of hole. Very minimal	1	- 1		i		1	1	ł	1	1	1	i	1
					pyrite noted, estimate of trace to 0.5% max; exception is	1	ł		1		i i	1	1	1	1	1	1	
				1	Ifirst meter below upper contact where there is perhaps	1	1		1		1	1	1	1	1	1	1	1
		-		1	[1-2%, some minor leucoxene noted in this section as well.	1			1		1	1	1	1	1	1	1	1
		1			Overall very competent interval but a number of slips noted	1	1				1	1	1	1	1	1		1
				1	in the 10-15 deg to CA range. Some fractures noted as		l J		1		1	1	1	1		1	1	1
		1			well at 60 deg to CA, occassional gtz stringer in this interval	1	1		1		1	1	1	1	1	1	۲ 1	ſ
					lin similar orientation.	1			1		1	{ 1	i 1	1	1	1	4 1	4
		-		1	EOH 60.00 M	1	I		1			1	1	1	1	1		
		1		1		l I			-		-	4	1	1		1		1
		1		1	l Core stored at Palancia field office in Conneurabt Ontaria	ł	1				-	1	1	1	1	1	1	1
I		1			Core stored at Pelangio field office in Connaught Ontario	1	1		1		1	1	1	1	1	1	1	1
ł		-	1	1	I ITest at 60 m; Test at 211 50 Az and corrected 200 Az and	I J	1		ł		1	1	1	1	1	1	1	1
1		-			Test at 60 m: Test at 211.50 Az and corrected 200 Az and	1			1		1	1	1	-	4	1		-
				F	dip of -44.60.	1						1	1		1	1	1	i
1		I	I	ł	ł	I	•		I		I	1	1	I	I	ł	1	ļ.

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Prospect: DDH: JS2 Core Size CLAIM: L	: NQ	haft Area Azimuth/Dip: 200 Tests: see last p EOH: 81 m.		Grid Location: N/A See UTM Coordinates UTM:560297E 5336213N Nad 83 Zone 17 Date Started: Jan.28 2020 Date Completed: Jan.29 2020 Core Storage: Pelangio Field Office Connaught Ontario.	Drill Compar NPLH Drillin Logged by: K. Filo		Completed Feb. 7 2020								
From 0.00	1 70 2.00	l <i>Rock Type</i> Casing	Code CAS	l <i>Description</i> Note, casing left in hole.	Sample#	 From 	То	Meters	Auppb	Au g/t	Pt ppb	Ptg/t	Pd ppb	Pd g/t	
2.00	42.25 	Gabbro	6G	At 2.00 to 36.00 m This is a typical gabbro unit as described in other holes from this program. From a mineralogical perspective the lunit is composed of plagioclase feldsapar, ferro mag Iminerals (amphiboles mainly) and some quartz. The color lof the gabbro varies, generally lighter grey with more lplagioclase content as is the case with this particular linterval. The unit is very hard but can be scratched with Isome effort and the unit has no HCL reaction. This interval lis strongly magnetic, some magnetite noted. A few minor lquartz and quartz calcite stringers noted but fairly rare. These stringers and veinlets generally 2-3 cm at the most. ISmall stringer of quartz noted at 8.98-9 m., quartz calcite Istringer at 12.77 to 12.80 and 22.54-22.58. All of these are lat 85-90 deg to CA. Local patchy epidote present and some Istingers of epidote noted as well. Pyrite content in this lunit is minimal, etstimated of trace to 0.5%. With regard to Istructure, a number of minor slips present subparallel to CA Ito about 10-15 deg to CA in general. Also fractures Ithroughout but overall still a competent unit. Of note one lset of fractures common at 35-40 deg o CA. At 36.00 to 42.25 This gabbro unit more dark grey in color and more medium Igrained, a vein of quartz a couple of cm wide noted at Istart of interval running subparallel to core axis from 136.10 to 36.30 m. The fine grained dark grey gabbro unit unit within this interval continues to about 38.75 meters. It lis noted that this initial interval grades into gabbro typical of Ithat described from 2.00 to 36 above. In this particular Isection magnetic only from 39 meters to lower [contact and no HCL response in any portion of this unit. Minor fault noted from 42 to 42.15 with oxidized slip planes Jat about 20 deg to CA. Somewhat blocky and broken lup for about 50 cm above this fault. In general outside of Iths small blocky section the unit is fairly competent with	20951 20952 20953 20954 20955 20956 20957 20958 20959 20960 20961 20962 20963 20964 20965 20966 20966 20967 20968 20966 20967 20970 20971 20972 20973 20974 20975 20974 20975 20976 20976 20977 20978 20978 20979 20980 20981 20981 20983	2.00 3.00 4.50 5.00 7.50 9.00 10.50 12.00 13.50 15.00 16.50 18.00 21.00 22.50 24.00 25.50 27.00 25.50 27.00 31.50 31.50 34.50 34.50 34.50 34.50 36.00 36.00 36.00 38.00 38.00 38.00 38.75 40.00 41.00	3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 15.00 21.00 22.50 24.00 25.50 27.00 28.50 30.00 31.50 36.00 36.40 37.00 38.75 40.00 41.00 42.25	1.00 1.50 1.25 1.25 1.25 1.25	$\begin{vmatrix} 6 \\ 10 \\ 7 \\ 219 \\ < 5 \\ 864 \\ 68 \\ 195 \\ 25 \\ < 5 \\ 32 \\ 15 \\ 9 \\ 111 \\ 8 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 27 \\ 34 \\ 590 \\ 32 \\ 5 \\ 1060 \\ 32 \\ 5 \\ 100 \\ 32 \\ 5 \\ 100 \\ 4 \\ 8 \\ 10 \\ 10 \\ 1 \\ 10 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	0.006 0.01 0.219 <0.005 0.864 0.068 0.195 0.025 0.032 0.015 0.009 0.011 0.008 0.015 0.009 0.011 0.008 0.027 0.034 0.059 1.06 0.032 0.032 0.032 0.034 0.059 1.06 0.032 0.005 0.032 0.005 0.032 0.005 0.011					

42.25 50.20 Diorite 6D This a light grays to light salmes color due to wask hemailite 20984 42.25 43.00 0.75 <5	From 	To 	Rock Type	Code 	Description Ia few typical slip planes at 10-15 deg to CA as per other Iholes in this area and some fractures planes at 55-60 deg Ito CA. No significant veining observed here except for Ivein described at start of section. Pyrite content trace to 0.5%. Lower contact at 30 deg to CA and sharp contact.	Sample# 	From 		Meters	i Au oob	Au g/t	Pt ppb 	Pt g/t	Pd pob	Pd g/t	
iplanes. Host rock of fault diorite to about 50.7 meters 20995 51.65 53.00 1.35 10 0.01 i iand beyond this oxidized gabbro. Contact of two units 20996 53.00 54.00 1.00 1030 1.03 i iand beyond this oxidized gabbro. Contact of fault at 40 deg to 20996 53.00 56.00 1.00 1030 1.03 i i i i i i i 0.04 0.04 0.04 i i i i i 0.01 1.00 1.00 1.00 0.04 i i i i i 0.04 0.04 0.04 i i i i i 0.05 1.00 1.03 0.04 i i i i i i 0.06 1.00 153 0.153 i i i i i i i i i i i i i i	 42.25 	 50.20 	Diorite	 6D 	lalteration on fresh dry surface, color varies with intensity lof alteration; overall weak to moderate and pervasive. I This unit is more medium to fine grained and primarily [composed of feldspar and quartz, less that 3% mafic [minerals. Overall estimate of trace to 0.5% pyrite but [certain intervals like from 43-44 m (3% pyrite) contain [somewhat more pyrite. A few tiny microstringers of [quartz calcite noted, not significant. This unit is locally wkly [magnetic and has a weak to moderate HCL reaction. Unit [is considered soft to moderate with respect to hardness. [Reltively competent unit with a number of slip planes at [10 to 15 deg to CA and fractures at 60 deg to CA in general. [Lower contact along oxidized slip plane marking start of [fault below at 10 deg to CA. note small mafic dyke noted]	20985 20986 20987 20987 20988 20989 20990 20991 20991	43.00 44.00 45.00 46.00 47.00 std221 48.00 49.00	44.00 45.00 46.00 47.00 48.00 49.00 50.00	1.00 1.00 1.00 1.00 100 1.00 1.00	44 29 37 43 24 1080 42 42 23	0.044 0.029 0.037 0.043 0.024 1.08 0.042 0.042					
igabbro that is exceptionally hard (silicified??). Strongly 20999 56.00 56.85 0.85 1560 1.56 igabbro that is exceptionally hard (silicified??). Strongly igabbro that is exceptionally hard (silicified??). Strongly 20999 56.00 56.85 0.85 1560 1.56 1 igabbro that is exceptionally hard (silicified??). Strongly igabbro that is exceptionally hard (silicified??). Strongly 20999 56.00 56.85 0.85 1560 1.56 1	50.20	 51.65 	Major Fault Zone 	FZ	Iplanes. Host rock of fault diorite to about 50.7 meters Jand beyond this oxidized gabbro. Contact of two units Jwithin fault ground up. Lower contact of fault at 40 deg to	20995 20996	51.65 53.00	53.00 54.00	1.35 1.00	10 1030	0.01 1.03					
	/ 51.65 	 56.85 	Gabbro	6G	Igabbro that is exceptionally hard (silicified??). Strongly Imagnetic unit and some magnetite noted. Stong pervasive Iepidote alteration noted in last 1.5 meters above lower Icontact. A few stringers of edpidote present in unit as well. ICompetent unit with a number of minor slips at 10-15 deg Ito CA and few fractures at 55-60 deg to CA. Minor fault Ifrom 55.65 to 55.85 at about 5 deg to CA with some blocky Ibroken core. Unit has no HCL reaction and no significant Iquartz or quartz calcite veining or stringers noted. Trace Ipyrite in this section. Lower contact with quartz calcite				•	•						
I I I I I I I I I I I I I I I I I I I	 56.85 	57.38 	 Quartz calcite Vein 	Qcv 	with no minerlization. Uppper contact at 50 deg to CA and	21000 	 56.85 	 57.38 	0.63 	18 	 0.018 			1 1 1 1	1 1 1	

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From	Το	Rock Type	Code	Description	Sample#	From	То	Meters	Au ppb	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	ļ
 57.38 	64.50 	Gabbro	16G	This is a coarse grained grey colored unit with a Imineralogical make up as per initial description of gabbro lin this hole. Ferro mag minerals more dominant than Ifeldspar giving unit a slightly darker grey color. The unit is Ihard and strongly magnetic with some magnetite grains. ITrace of pyrite mineralization at best and no significant Iquartz or quartz calcite veining / stringers. A couple of Irare granitic veins noted generally less than 2 cm wide. Some very minor localized patchy weak epidote alteration. A few slip planes noted ranging from 5-15 deg to CA and Isome fractures at 55-65 deg to CA generally, this is a competent unit overall. Lower contact gradational over 10 cm or so.	21001 21002 21003 21004 21005	57.38 58.50 60.00 61.50 63.00	58.50 60.00 61.50 63.00 64.50	1.12 1.50 1.50 1.50 1.50 1.50 1 1.50	6 7 <5 19 1820 	0.006 0.007 <0.005 0.019 1.82					
64.50 	67.00 	Gabbro	16G	This is a still a gabbro unit but it is more medium to fine (grained with rare short interval of coarser grained material. The unit is extremely bleached and contains numerous (quartz and quartz calcite microstingers generally oriented) at 20 and 60 deg to CA geneally. These make up about 5% of the unit. The unit is non magnetic and has a strong HCL (reaction. Estimate of 2-3% disseminated pyrite. Relatively leasy to scratch, soft unit. Numerous leucoxenes observed (especially adjacent stringer salvages. The unit is blocky and broken up with numerous fractures and slips/ minor (faults? Color wise unit could be described as bleached (white grey. Again gradational lower contact.	21006 21007 21008 21009 21010 1 1 1 1	64.50 65.50 66.50 67.00 blank 	66.50 67.00	 1.00 1.00 0.50 050 	16 <5 28 <5 <5 	0.016 <0.005 0.028 <0.005 <0.005					
 67.00 	 81.00 	Gabbro 	16G	This is a medium to coarse grained gabbro with a Imineralogical make up as per 2-36 m description above. IThis partiular section has very minimal quartz or quartz Icacite stringers/ veinlet except for initial 1 meter inteval Ibeyond upper contact. The unit is hard and not easily Iscatched with a knife. It has no HCL reaction and overall Istrongly magnetic as magnetite present, some rare sections Iwith no magentic response in first few meters of unit. The Iunit is a medium grey color and there is patchy strong Iepidote alteration noted and some epidote stringers. A few Irare veinlets of granite generally less than 2 cm wide noted IPyrite content minimal, estimate of trace. As per most of Ithis hole some slip planes noted at about 10 deg to CA and Isome fractures again in general at 60 deg to CA. Very Icompetent unit. IEOH 81.00 M	21011 21012 21013 21014 21015 21016 21017 21018 21019 21020	67.50 69.00 70.50 72.00 73.50 75.00 76.50 76.50 78.00 79.50 std221 EOH	69.00 70.50 72.00 75.00 76.50 76.50 78.00 79.50 81.00	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	20 13 5 6 8 <5 16 122 140 1070 	0.02 0.013 0.005 0.006 0.008 <0.005 0.016 0.122 0.14 1.07					

From	To	Rock Type	Code	Description	Sample#	+ F	rom		'o	Meters	Au ppb	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	1
I	ł		1	Core stored at Pelangio Exploration field office in Connaught	ł	1			- 1		I	1	I		1		1
I	ł	1	1	Ontario.	1	1			- I		1	ł	I		I .	1	1
I	1	I		1	1	1		ł	ł		I	1	1	ł	1	ł	1
1	1	l '	1	Test at 60 m had an 214.4 Az and corrected az of 202.90	ł	1	1	l	I			1	ł		ł	1	
1	ł	1	1	Jand a dip reading of -59.40.	ł	1	I	ł	J		J	I	ł	I	I	I	J

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Prospect DDH: JS2 Core Size CLAIM: L	NQ:	haft Area Azimuth/Dip: 200 Tests: see last pa EOH:101.75		Grid Location: N/A See UTM Coordinates UTM:560297E 5336213N Nad 83 Zone 17 Date Started: Jan 29 2020 Date Completed: Jan 30 2020 Core Stored: Pelangio Field Office Connaught Ontario	Drill Compar NPLH Drillin Logged by: K. Filo		Completed I Feb.14 2020								
<i>From</i> 0.00	To 1.65	 Rock Type Casing	Code	l Description Note, casing left in hole.	Sample#	From	То	Meters	 Auppb	 Aug/t 	 Pt ppb	 Ptg/t 	 Pdppb 	 Pdg/t 	
1.65		Gabbro		At 1.60 to 18.90 This unit is a medium to coarse grained grey colored unit composed of plagioclase, ferro mag minearals (mainly lamphiboles) and some quartz. The unit is fairly hard but lcan be scratched with a knife with effort. The unit is lstrongly magnetic with a few exceptions over short lintervals in the first few meters of the hole. Magnetite noted in this unit. Pyrite mineralizaton very minimial and lestimate of trace to 0.5% maximum. No significant quartz lor quartz calcite stringers / veinlets observed (less than 11% of unit). Local sections of patchy moderate epidote latteration and some stringers of epidote noted. The unit thas no HCL reaction. Competent interval with a few minor Islip planes ranging from 5-15 deg to CA and fractures noted lat about 60 deg to CA. At 18.90 to 35.43 This is a continuation of gabbro unit as per mineralogical make up just described in previous interval above. This lparticular interval is coarse grained and grey in color but at I34-35.43 unit is more of a bleached grey; this latter section is non magnetic and has a very weak HCL reaction and lsome minor quartz calcite stringers; basically the only lquartz calcite stringers in this interval. Outside of last 1.43 Imeters variable response to magnet ranging from non lexistant to very strong, some magnite pressent in areas with stronger response. Again weak to moderate patchy lepidote alteration noted along with some epidote stringers. Also some minor leucoxene alteration noted at 34,75-34.85. In general this unit is hard and difficult to scratch with knife lbut softer in last 1.43 meters of interval, this last interval also lslightly finer to medium grained. In this section minimal lamount of pyrite observed; estimate of trace to 0.5%. Small fault zone from 31.15 to 31.35 with fault plane at 5 ldeg to CA and some blocky broken ground associated with lfault. Outside of this competent unit with some minor slips lagain at 5-15 deg to CA and some fractures at 60 deg to CA	21021 21022 21023 21024 21025 21026 21027 21028 21029 21030 21031 21032 21033 21034 21035 21036 21037 21038 21039 21040 21041 21042 21043 21044 21045 21046	1.65 3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 blank 15.00 16.50 18.00 21.00 22.50 24.00 25.50 27.00 std221 28.50 30.00 31.50 33.00 1	3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 15.00 16.50 18.00 19.50 22.50 24.00 22.50 24.00 25.50 27.00 28.50 30.00 331.50 33.00 34.00 35.00	1.35 1.50 1.00 1.00 1.00 1.00	6 16 658 421 20 10 5 36 125 8 <5	0.006 0.016 0.058 0.421 0.02 0.01 0.005 0.036 0.125 <0.005					

From	<i>To</i> 53.70	<i>Rock Type</i> Gabbro	Code 6G	Description IAt 35.43 to 53.70	Sample#	From	То	Meters	Auppb	Aug/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	1
11.00	155.70	(continued)	00	Continuation of gabbroic unit; mineralogical make up as	21047	36.00	37.50	1.50	21	0.021	1	1	1	1	1
1				Iper initial description in this hole. This unit is still medium	21047	37.50	39.00	1.50	1 21	0.021	1	1	i i	1 1	i
	-	1		to coarse grained but leaning towards medium grained. On	21048	39.00	40.50	1.50	773	0.773	1	1	1	l Į	1
1	!		1		•		•			-	1	1	1	1	ł
1	!		1	the dry surface the unit is a light grey weakly bleached	21050	40.50	42.00	1.50	33	0.033	l F	1	1	1	1
ļ	!	1		Icolor. This interval is strongly magnetic, magnetite noted.	21051	42.00	43.50	1.50	13	0.013	1	1	1	1	1
	ļ			Insignificant quartz stringers and were present generally	21052	43.50	45.00	1.50	143	0.143	1	ł		1	1
l.	ļ			less than a cm wide, stringer noted at 47.40 at 50 deg to CA	21053	45.00	46.50	1.50	13	0.013	1	1	1	1	!
	1			In association with minor slip plane and a small stringer	21054	46.50	48.00	1.50	18	0.018	1	1	1	1	1
	1		1	at 52.32 at 50 deg to CA. Unit is very hard and difficult to	21055	48.00	49.50	1.50	14	0.014	1	1	ł	ļ	ł.
			1	scratch with a knife. Unit has no HCL reaction. Estimate	21056	49.50	51.00	1.50	17	0.017	1	1	1	1	1
I	1		1	of 0.5% pyrite. Again patchy epidote alteration along with	21057	51.00	52.50	1.50	406	0.406	1	l	1	l l	t
1	1		1	some epidote stringers. Some granitic dykes less than 2 cm	21058	52.50	53.70	1.20	236	0.236	1	I	•	4	i
	1		ł	wide generally sub parallel to CA noted from 50.5 to 51.50.	1	1	1	I	1	1	1	1	1	1	1
	1		1	No major structure noted. As usual a number of minor slip		1	1	I	1	I	I	ł	ł	1	1
1	1		1	planes ranging from 5-15 deg to CA and fractures at	l		1	1	1	ł	1	1	1	1	ł
i	1			about 60-65 deg to CA in general. Lower contact with fault	l		1		1	1	1	1	t	1	1
1	1		1	zone at 50 deg to CA.	ł	ļ	ł	1	1		1	ł	1	ł	1
1	ł		1		1		1	1	ļ	1	l	1	1	1	1
53.70	155.85	Fault Zone	IFZ/6G	This is a brittle fault zone with signifcant ground rubble	21059	53.70	55.00	1.30	882	0.882	1	ł	1	1	1
1	1		I	[making up the fault zone, slip planes within the fault zone	21060	blank	1	1	9	0.009	ł	1	ł	1	I.
1	1	I		are parallel to the core axis for the most part. Some	21061	55.00	55.85	0.85	123	0.123	1	1	1	1	1
Ì	1		1	oxidation noted (limonite). A few quartz stingers noted	1	1	I	1	1	1	1	ł	1	1	I
Í	l l		Í	but rare and host rock is a coarse grained gabbro. Some	l	1	I	I	l	1	I	1	1]	1
Ì	1	1	i i	minor leucoxenes noted on salvage of stringer. The gabbro	I	1	1	1	ł	1	1 .	1	1 .	ł	1
i	i	1	i	within the fault zone has a strong HCL reaction and is	I	Ī	i	1	1	Ì	Ì	Ì	i	Ì	i i
i	Ī	i	İ	magnetic. Gabbro still very hard to scratch with a knife. Very	i	I	1	Ì	ſ	i	1	1	i	i	i
i i	i		i	minor pyrite note estimate of trace. Lower contact of fault	i	i	i	i	}	i	i	i	i	i	i
i	í		i	ground up.	i	i	1	i	1	i	i	i	1	1	i
1	i	, I	i		i	1	i	i	1	1	i	i	1	i	i
55.85	159.50	, Gabbro	6G	This is a grey colored medium grained gabbro with	21062	55.85	57.00	1.15	36	0.036		i	1	i	i
100.00	100.00		100	mineralogical make up as per intial description of gabbro	21063	57.00	58.50	1.50	1060	1.06	3	1	r I	1	i
1	1			unit in this hole. Some pyrite in this section perhaps 1%	21064	58.50	59.50	1.00	338	0.338	1	1	1	1	ì
1	1	1	1	lin disseminated form overall. A few minor guartz calcite	1 21004	00.00	1 00.00	1 1.00	1	1 0.000	1	1	1	1	
1	1			stringers present, not significant. Some epidote stringers		ь 1	1		1	1	· ·	1	1	1	1
	i f		1	lalso noted. Also a grantic dyke a couple of cm wide		1	1		1	1	1		1	1	ł
-	1		1	lextending for about 10-15 cm beyond 56 m at 15 deg to CA.	1	1	1		1	1	1	1		1	I I
-	1		1	Locally a weak HCl response and some minor patchy epidote	1	1	-	1	1	1	1	1	1	1	1
1	1	1	1		1	1	-	i i	1	!	1				1
1	1		1	alteration noted as well. Variable hardness from moderate	1	!		1	1	1	1	1	1		-
1	1		1	to very hard and strong reaction to magnet. A few		!	1	!	1	1			1	1	ļ.
	Į		1	fractures present at 50-60 deg to CA and some slip planes	!	1	1	1	1			ļ	1		.[
	1			at 15 deg to CA in general proximal to fault contact of this	I	1	1	1	1		1	1	1	a ser en an	1
	1			Junit. Lower contact along a slip plane at 35 deg to CA.	I	1	1	l	1	1	1	ł	l	1	ł
		ł			1	1	1	1	1	1	1	1	1	ľ	1
	1		l		I	1	1		1	1	1	1	I	1	1
I	1	1	1		ł		1		l	1	1	1	1	1	
1	1		1	1	1	1	I	1	ł	I	l.	1	1	l	1

<i>From</i> 59.50 	To 64.80 	<i>Rock Type</i> Fault Zone 	<i>Code</i> FZ/6D 	Description This is a major brittle fault zone with most of the rock, shattered or ground up into rubble. The host rock for this fault is a diorite comprised mainly of feldspar, quartz and some minor mafic minerals for the majority of the fault. A small fine grained mafic dyke is present from 59.50 to 60.30; the only other unit within the fault zone. The diorite is a grey to salmon color due to hematite alteration. The diorite is of moderate hardness and reacts strongly to HCL. No significant minralization observed in diorite or mafic dyke. Some minor quartz calcite microstingers observed in mafic dyke but not considered significant. The diorite dyke is weakly magnetic and the mafic dyke non magnetic. Mafic dyke has no HCL reaction. Lower contact of fault zone at 30 deg to CA.	Sample# 21065 21066 21067 21068 21069 21070 	From 59,50 60,30 61,50 63,00 64,00 std221	To 60.30 61.50 63.00 64.00 65.00	Meters 0.80 1.20 1.50 1.00 1.00 1.00 1	Auppb 19 13 15 17 50 1080 	Au g/t 0.019 0.013 0.015 0.017 0.05 1.08	i Pt ppb i i i i i i i i i i i i i i i i i i	Pt g/t	Pd pob	Pd g/t	
64.80 		Diorite 		This unit is the same diorite unit present within the fault [zone above. It has a similar mineralogical make up to the [diorite described above within fault zone. This unit is [again a grey to light salmon color due to hematite alteration. [Unit of moderate hardness, non magnetic outside fault & has [moderate HCL reaction. The diorite is medium to fine grained [Estimate of 1-2% fine disseminated pyrite in unit. A few [stringers of quartz calicte not significant. Fairly competent [interval with a few slips at 5-10 deg to CA and fractures [noted at 45 and 60 deg to CA. In some instances some [poorly developed phencrysts of feldspar "suggesting" [a porphyry like texture but extremely poorly developed at [best. This diorite may represent the No.6 vein porphyry [described in historical literature. Towards lower contact, [for about last 50 cm or so diorite has a chill zone and [becomes finer grained and unaltered. Lower contact at [20 deg to CA.	21071 21072 21073 21074 21075 21075 21076	65.00 66.00 67.00 68.00 69.00 70.00	66.00 67.00 68.00 70.00 71.10	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.10 1	23 24 34 11 54 54 	0.023 0.024 0.034 0.011 0.054 0.054					
71.10	72.05	 Quartz Vein 	Qv 	Smoky grey black quartz vein (chert like) which grades Into a white quartz ankerite vein for last 25 or so cm of Ivein. Some fine pyrite present in vein 1% overall. Lower Icontact at 20 deg to CA.	21077 	71.10 	72.05	0.95 	127 	0.127	2 				
72.05 	72.50 	Gabbro	i 6G 1 1 1	Small section of gabbro as per previous descriptions of gabbro in this hole. No significant veining or mineralization observed. Some leucoxene at upper contact adjacent vein above. Unit is hard, non magnetic & does not react to HCL. The unit is medium to coarse grained.	21078	72.05	72.50 	0.45	72	0.072					
 72.50 	73.75 	 Fault Zone 	 FZ/6G 	I A brittle fault zone with substantial broken rock/ rubble. Numerous slip planes from from 30 deg to CA to a few deg I	21079 21080 	72.50 blank	73.75	1.25 	22 < 5 	0.022 <0.005		« 	: 		

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From	To	Rock Type	Code	Description	Sample#	From	То	Meters	Au ppb	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	I.
l	1		I	Ifrom the CA. Lower contact of fault parallels CA for about			1	1					1	ļ	!
1			I	10 cm. The unit hosting the fault is a gabbro that is medium		ł		ļ					1	1	1
1			I	Ito coarse grained and is a grey color. No significicant	1	1	1	1	1				1	1	[
1	I		1	Imineralization noted, rare microstinger of quartz noted. Unit	1	1		ļ					1	1	ŧ
	1	ł	1	has HCL reaction and is still farily hard and strongly	1	1	1	1	1				1]	!
E E				Imagnetic.		ł	l	Į					1	ł	!
								1					ł	1	!
73.75	101.75	Gabbro	16G	This is a medium to coarse grained gabbro that is grey in	21081	73.75	75.00	1.25	212	0.212			1		
	1		ł	color for the most part. However, from about 85.5-94.20	21082	75.00	76.50	1.50	152	0.152			ł	1	ļ
	1	ļ	I	Imore of a weakly bleached greycolor on fresh dry	21083	76.50	78.00	1.50	7	0.007				1	1
1			I	surface. Beyond 94.20 to end of hole a grey color.	21084	78.00	79.50	1.50	< 5	<0.005			1	1	!
	1			Mineralogical make up of this unit as per intitial descritpion	21085	79.50	81.00	1.50	5	0.005			1	ļ	ļ.
1	l l	ł	ł	In this hole. Very minimal quartz calcite stringers / veinlets.	21086	81.00	82.50	1.50	10	0.01			ł	1	ļ –
	ł		ł	A small veinlet observed at 83 meters and a few stringers	21087	82.50	84.00	1.50	7	0.007	1			1	1
I	1	1	1	Inoted from 92.75 to 94 oriented at 80-85 deg to CA.	21088	84.00	85.50	1.50	8	0.008			I .	1	ł
1	1	ł	1	The unit is hard but can be scratched with some effort and	21089	85.50	87.00	1.50	5	0.005	1		1	ļ	1
1	I		l.	It has no HCL reaction with the exception of area between	21090	std221	1	1	1110	1.11	l		ł	ļ	1
1	ł	1	1	92.75 and 94 m. Strongly magnetic unit and magnetite	21091	87.00	88.50	1.50	< 5	<0.005	ł		1	1	1
1	ł		1	noted. Some patchy epidote alteration noted and a	21092	88.50	90.00	1.50	13	0.013	1	l	1	1	1
I	1	1	1	Inumber of epidote stringers present. Some leucoxene	21093	90.00	91.50	1.50	5	0.005	1	ł	1	ł	1
1	1		I	alteration noted from 92.75 to 94 m. A few rare granitic	21094	91.50	92.75	1.25	6	0.006	l	ļ.	ł		1
ł	1	1	l l	dykes generally less that 2 cm such as at 87.15 m. Pyrte	21095	92.75	94.00	1.25	6	0.006	I		ł	I	1
Į	1	ł	1	mineralization sparse, estimate of 0.5%. Maximum overall.	21096	94.00	94.50	0.50	6	0.006	I		ł	1	1
I	1	1	1	Minor fault at 2-3 deg to CA from 95.80-96.20. Outside of	21097	94.50	96.00	1.50	< 5	<0.005]		ł	1	1
l	1	1	1	this a very competent inteverval with a number of slips	21098	96.00	97.50	1.50	< 5	<0.005	Į	1	1	I	ł
1	1		Î	planes at 10-15 deg in general and fracture at 45-50 and 60	21099	97.50	99.00	1.50	< 5	<0.005	ł	l	1	I	ł
i	1		i	Ideg to CA.	21100	99.00	100.50	1.50	5	0.005	1		1	ł	1
i	i	I	1	EOH 101.75 M.	21101	100.50	101.75	1.25	< 5	<0.005	l	1	1	1	1
i	i i	l	i		1 ·	1	Ì	Ì	1	l	l	-	1	1	ł
i	ł	1	i.	Core stored at Pelangio's field office in Connaught Ontario	Ì	l	1	Ì	1	1	1		1	1	1
i	ĺ	Í	Î		i	l	1	i	i	ľ	1	l	Ì	i	i -
i	i	i	i		1	l	1	Ì	1		İ		i		i
i	Ì	Ì	i	Test at 60 m has an az of 220.2 deg and corrected this	i	1	I	1			i		i	ł	i
i	Ì	i	i	az would be 208.70 and a dip of -71.80. Concern about	i	Į	i	i	1		I		Ì	i	i
i	i	i	i	Imagnetics in this hole with regard to azimuth.	i	1		i]		1		1	i	i
•	•	-	•		•	•		•	•	•			•		•

To 0.00 ICode (Case) Code (Case) Code (Case) <thcode< th=""> Code (Case) Code</thcode<>	Prospect DDH: JS2 Core Size CLAIM: L	e:NQ	Shaft Area Azimuth/Dip: 197 Tests: see last p EOH:60m.		Grid Location: N/A Off Grid See UTM UTM:560318E 5336214N Nad 83 Zone 17 Date Started:Jan 20/20 Date Comleted: Jan 21/20 Core Storage: Pelangio Office Connaught Ontario.	Drill Compa NPLH Drillin Logged by: K. Filo		Completion January 29	of Logging: 2020		1		,	,		
1.80 26.62 Gabro IGS This is a dark grey medium to coarse grained unit loom/prised of plagioclase, ferro mag minerals, and some lougatt, Error mag minerals method to 20052 3.00 4.00 1.60 4.00 5 0.0005 1 Interview 1 1.60 20052 3.00 4.00 1.60 4.00 5 0.0005 1 Interview 1.60 1.60 1.60 1.60 72 0.072 1.00 1 Interview 1.60 2.000 6.00 1.00	0.00					Sample#	From	То	Meters	I Au ppb	Aug/t	Pt ppb	Ptg/t	Pd ppb	Pd g/t	ļ
28.62 47.90 Mafe Volcanic 20502 3.00 4.00 1.00 6 0.005 1 28.62 47.90 Mafe Volcanic 20502 3.00 4.00 1.00 6 0.005 1	0.00	1.00				1		1	i	1	1	1	1			ł
28.62 47.90 1.00 < 50	1.60	26.62	Gabbro	I6G	This is a dark grey medium to coarse grainded unit	20501	1.60	3.00	1.40	7	0.007	i		i	Ì	i
1 I Image to patout 50% of unit. Variable subhide content, pyrile 20604 5.00 1.00 72 0.072 I I 1 Image from trace 13% built localy 2% diseminated over 20605 6.00 1.00 1.00 1.00 0.01 1 Image from trace 13% built localy 2% diseminated over 20607 8.00 1.00 1.00 0.01 0.01 1 Image from trace 13% built localy 2% diseminated over 20608 9.00 1.00 1.00 5 0.008 Image from trace 13% built localy 2% diseminated over 1 Image from trace 13% built localy 2% diseminated over 20608 9.00 11.00 1.00 5 0.009 Image from trace 13% built localy 2% diseminated over 1 Image from trace 13% built localy 2% diseminated over 20608 1.000 1.00		1	1	I	comprised of plagioclase, ferro mag minerals, and some	20502	3.00	4.00	1.00	5	0.005	ļ	ľ	1	1	1
28.62 47.90 Mafic Volcanic' 22050 6.00 7.00 1.00 1.20 1.00 <td></td> <td>1</td> <td>1</td> <td>I</td> <td>quartz. Ferro mag minerals most prominent, estimated to</td> <td>20503</td> <td>4.00</td> <td>5.00</td> <td>1.00</td> <td>< 5</td> <td>< 0.005</td> <td>1</td> <td>I</td> <td>1</td> <td>1</td> <td>t</td>		1	1	I	quartz. Ferro mag minerals most prominent, estimated to	20503	4.00	5.00	1.00	< 5	< 0.005	1	I	1	1	t
28.62 47.90 Isofit Intervals. Unit Nard but can be scrathed with a kink with I difficulty, selficitiation Verraliu th is strongy magnetic with I a few Intervals that are weakly to non magnetic. 20506 9.00 1.00 1.00 8 0.009 1 I a few Intervals that are weakly to non magnetic. 20506 9.00 10.00 1.00 1.00 1.00 2.009 1 1 I a few Intervals that are weakly to non magnetic. 20506 9.00 10.00 1.0		1	1	I	make up about 50% of unit. Variable sulphide content, pyrite	20504	5.00	6.00	1.00	72	0.072	1	1	1	1	ł
26.62 47.90 Mafe Volcanic' 12.05 3.00 1.00 1.00 8 0.008 1 26.62 47.90 Mafe Volcanic' 12.86 2.9 3.7 3.25 2.2050 1.00 1.00 1.00 2.9 0.029 26.62 17.6 An service wasky to on magnetic. 2.0511 11.00 1.00 1.00 2.9 0.029 10 to the CA. Britle fault zone from 13.2 to 13.8 with blocky 2.0511 11.00 1.00 1.60 1.00 1.60 0.018 0.018 1.00 1.00 1.50 1.00 1.00 1.50 0.018 0.018 1.00 1.00 1.50 1.00 1.00 1.50 1.00 <td></td> <td>1</td> <td>1</td> <td>1</td> <td>ranges from trace to 1% but locally 2% disseminated over</td> <td>20505</td> <td>6.00</td> <td>7.00</td> <td> 1.00</td> <td>23</td> <td>0.023</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>l l</td>		1	1	1	ranges from trace to 1% but locally 2% disseminated over	20505	6.00	7.00	1.00	23	0.023	1	1	1	1	l l
28.62 47.90 Mafe viniervais that are weakly to non magnetic. 20508 9.00 10.00 10.00 9 0.009 1 A few protote stringers noted. This unit is moderately 20090 10.00 10.00 12.00 1.00 45 4.00.005 1 Ibiocky with numerous fracture planes at 20,40 and 70 deg 20011 11.00 1.00 45 4.00.005 1 Ibiocky with numerous fracture planes at 20,40 and 70 deg 20011 11.00 1.00 45 4.00.016 1 Ibiocky with numerous fracture planes at 20,40 and 70 deg 20011 11.00 1.00 45 4.00.016 1 Ibio the CA. Britlife autily contern minor stimger noted at 14.92 20131 11.00 1.00 3730 3.73 1 Ipinencoscles pring it a contphritic 20515 15.00 17.00 1.00 47 0.047 1 ipinencoscle from 2.32 fb 0 2.4m, ikely edge of some 20517 17.00 1.00 1.00 0.11 1.00 1 Ipinencoscle from 2.32 fb 0 2.5 nm. 2.250 fb 2.0 2.32		I	1	1	short intervals. Unit hard but can be scrathed with a knife with	20506	7.00	8.00	1.00	10	0.01	1	ł	1	l	I
i j		1	1	I	difficulty, silcification? Overall unit is strongly magnetic with	20507	8.00	9.00	1.00	8	0.008	1	1	1	ł	1
28.62 47.90 Mafc Volcanic' 2MS 12.625 15.00 2021 2020 15.00		ł	1	1	a few intervals that are weakly to non magnetic.	20508	9.00	10.00	1.00	9	0.009	1	L	1	1	1
26.62 47.90 Mafic Volcanic' Ideastly 216.62 11.00 12.00 1.00 < < 5		1		1.	A few epidote stringers noted. This unit is moderately	20509	10.00	11.00	1.00	29	0.029	1	1	1	1	1
26.62 47.90 Mafic Volcanic' (Basait) 2MS 142.06 13.00 14.00 18 0.018 26.62 47.90 Mafic Volcanic' (Basait) 17.8, and 23.15. Some sections of this unit have large (phenocrysts of plagioclase giving it a porphytric) 20513 13.00 14.00 10.00 3730 3.73 1 1 17.8, and 23.15. Some sections of this unit have large (phenocrysts of plagioclase giving it a porphytric) 20514 14.00 15.00 11.00 35 0.035 1 1 17.8, and 23.25 to 24.m., likely edge of some 20514 15.00 11.00 4.5 <0.005		Ĩ	1	I	blocky with numerous fracture planes at 20,40 and 70 deg	20510	blank	1	1	< 5	<0.005	ł	ł	1	1	
26.62 47.90 Mafic Volcanic' [(Gasalt)) 2Ms 13.00 14.00 1.00 23.40 0.254 0.254 1 17.8, and 23.15. Some sections of this unit have large 20514 14.00 15.00 1.00 3730 3.73 1 1 17.8, and 23.15. Some sections of this unit have large 20514 14.00 15.00 1.00 3700 3.73 1 1 1 1appearance. This is particularly evident 19.5 to 24. A, vide 20516 16.00 1.00 47 0.047 1 1 1 was intersected from 23.25 to 24.8. 18.00 19.00 1.00 4.5 4.0055 1 1 1 Unver contact associated wind upart vein erratic contact 20518 18.00 19.00 1.00 100 0.1 1 <td< td=""><td></td><td>1</td><td>1</td><td>1</td><td>to the CA. Brittle fault zone from 13.2 to 13.8 with blocky</td><td> 20511</td><td>11.00</td><td> 12.00</td><td>1.00</td><td> < 5</td><td>< 0.005</td><td>1</td><td>1</td><td>1</td><td>ļ</td><td>1</td></td<>		1	1	1	to the CA. Brittle fault zone from 13.2 to 13.8 with blocky	20511	11.00	12.00	1.00	< 5	< 0.005	1	1	1	ļ	1
26.62 47.90 Mafic Volcanic* 20514 14.00 15.00 1.00 373 3.73 1 1 26.62 47.90 Mafic Volcanic* 20514 14.00 15.00 1.00 370 3.73 1 1 26.62 47.90 Mafic Volcanic* 20515 15.00 17.00 18.00 1.00 47 0.047 1 26.62 47.90 Mafic Volcanic* 20517 17.00 18.00 1.00 47 0.047 1 1 Inine workings. This unit have large events are other significant 20517 17.00 18.00 1.00 <5		Ì	1	ł	core at 10-15 deg to CA. and similarily at 18 to 18.4 m.	20512	12.00	13.00	1.00	18	0.018	ł	ł	1	1	
26.62 147.90 IMafic Volcanic' 12MS 142.622 2015 15.00 16.00 17.00 18.00 10.00 47 0.045 26.62 147.90 IMafic Volcanic' 12MS 142.622 22.01 12.00 12.00 13.00 1.00 47 0.045 26.62 147.90 IMafic Volcanic' 12MS 142.662 0.035 1		i	Í	l.	Very few quartz stringers, minor stirnger noted at 14.92,	20513	13.00	14.00	1.00	254	0.254	1	1	1	I	
26.62 147.90 Mafic Volcanic' 12MS 147.90 1.00 47 0.047 1 26.62 147.90 Mafic Volcanic' 12MS 142.66.2 to 35 m. 20518 18.00 11.00 47 0.047 1 26.62 147.90 Mafic Volcanic' 12MS 142.66.2 to 35 m. 20518 18.00 11.00 392 0.392 1 26.62 147.90 Mafic Volcanic' 12MS 142.66.2 to 35 m. 20521 20.00 1.00 635 0.635 1 1 26.62 147.90 Mafic Volcanic' 12MS 142.66.2 to 35 m. 20522 21.00 122.00 1.30 1.3 1		i	Í	I	17.8, and 23.15. Some sections of this unit have large	20514	14.00	15.00	1.00	3730	3.73	1	1	1	1	1
was interesected from 23.2 bf 24 m, likely edge of some 20617 17.00 18.00 1.00 < 6		i	Ì	ł	phenocrysts of plagioclase giving it a porphyritic	20515	15.00	16.00	1.00	35	0.035	Ì	1	1	1 .	
26.62 1 Imine workings. This unit has no HCL reaction whatsoever. 20518 18.00 19.00 1.00 100 0.1 1 1 26.62 147.90 IMafic Volcanic' 12MS 1at about 70 deg to CA. Actual vein from 26.42-24.62. 20520 std221 1 1060 1.00 1392 0.392 1 1 26.62 147.90 IMafic Volcanic' 12MS 1at 26.62 to 35 m. 20523 22.00 1.00 1300 1.06 1<		i	i	l	appearance. This is particularily evident at 19.5 to 25. A void	20516	16.00	17.00	1.00	47	0.047	Ì	Ì	1	Ì	Ì
26.62 147.90 IMafic Volcanic' 1 Image: Consider a sasociated with quartz vein erratic contact 20519 1 1000 392 0.392 1 1 1 26.62 147.90 IMafic Volcanic' 1 1 1 20520 std221 1 1060 1.06 1 1 1 26.62 147.90 IMafic Volcanic' 1 1 1 20521 2000 21.00 120.00 1.00 1330 1.3 1		i	i	Ì	was interesected from 23.25 to 24 m., likely edge of some	20517	17.00	18.00	1.00	< 5	< 0.005	Ì	1.	1	1	I
26.62 47.90 Mafic Volcanic' i <td></td> <td>i</td> <td>Ì</td> <td>Ì</td> <td>mine workings. This unit has no HCL reaction whatsoever.</td> <td>20518</td> <td> 18.00</td> <td>19.00</td> <td>1.00</td> <td>1 100</td> <td>0.1</td> <td>1</td> <td>ŀ</td> <td>ł</td> <td>1</td> <td>T</td>		i	Ì	Ì	mine workings. This unit has no HCL reaction whatsoever.	20518	18.00	19.00	1.00	1 100	0.1	1	ŀ	ł	1	T
26.62 47.90 Mafic Volcanic' i <td></td> <td>i</td> <td></td> <td>i</td> <td></td> <td>20519</td> <td>19.00</td> <td>20.00</td> <td>1.00</td> <td>392</td> <td>0.392</td> <td>1</td> <td>].</td> <td>1</td> <td>1</td> <td>Ì.</td>		i		i		20519	19.00	20.00	1.00	392	0.392	1] .	1	1	Ì.
26.62 47.90 Mafic Volcanic' I2MS lat 26.62 to 35 m. 20522 21.00 22.00 1.00 1300 1.3 I I I I(Basalt) IA few small gabbroic sections, small dykes of gabbro 20523 22.00 23.25 1.25 580 0.58 I I I I Intruding into a mainly volcanic interval, gabbro as per above. ns void 23.25 24.00 0.75 0 0 I <td></td> <td>i</td> <td>i i</td> <td>Ì</td> <td></td> <td>20520</td> <td>std221</td> <td>1</td> <td>1</td> <td>1060</td> <td>1.06</td> <td>Í.</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>		i	i i	Ì		20520	std221	1	1	1060	1.06	Í.	1	1	1	1
(Basalt) A few small gabbroic sections, small dykes of gabbro 20523 22.00 23.25 1.25 580 0.58 Image: Construction of the section e section of the sect, the section of the		i		j.		20521	20.00	21.00	1.00	635	0.635	Ì	1	Ì	Ì	Ì
intruding into a mainly volcanic interval, gabbro as per above. ns void 23.25 24.00 0.75 0 0 1 1 Intruding into a mainly volcanic interval, gabbro as per above. Ins void 23.25 24.00 0.75 0 0 1 1 1 Intruding into a mainly volcanic interval, gabbro as per above. Ins void 20524 24.00 25.00 1.00 555 0.555 1 1 Intruding into a mainly volcanic interval, gabbro as per above. 20525 25.00 26.00 1.00 555 0.555 1 1 Intruding into a mainly volcanic interval, gabbro as per above. 20525 25.00 26.00 1.00 1040 1.04 1 1 Intruding into a mainly volcanic interval, gabro as per above. 20525 25.00 26.00 26.62 0.62 3120 3.12 1 1 Intruding into a mainly volcanic interval, gain in quarkz veinlets generally less than couple of cm and a 20527 26.62 27.00 28.00 1.00 3520 3.52 1 1 Intruding into a voice orientations. Sparse sulphide, trace pyrite 20529 20502	26.62	47.90	Mafic Volcanic'	2MS	at 26.62 to 35 m.	20522	21.00	22.00	1.00	1300	1.3	1 I	1	1	1 I	1
Image: Second second		i	(Basalt)	l.	A few small gabbroic sections, small dykes of gabbro	20523	22.00	23.25	1.25	580	0.58	ł	I	1	1 -	1
Image: Interview of the strength of the second of the s		i		Ì	intruding into a mainly volcanic interval, gabbro as per above.	ns void	23.25	24.00	0.75	0	0	Ì	1	1	Í	ł
Image: Interview of the strength of the second of the s		i		i	This is a light grey very fine grained and very hard unit	20524	24.00	25.00	1.00	555	0.555	1	ł	ł	1	1
i i i i i 20527 26.62 27.00 0.38 789 0.789 i <td></td> <td>i</td> <td>Ì</td> <td>Ì</td> <td>that is difficult to scratch with knife; possibly silicifed? Unit</td> <td>20525</td> <td> 25.00</td> <td>26.00</td> <td>1.00</td> <td>1040</td> <td>1.04</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>I</td>		i	Ì	Ì	that is difficult to scratch with knife; possibly silicifed? Unit	20525	25.00	26.00	1.00	1040	1.04	1	1	1	1	I
Inumber of wispy quartz calcite stringers making up 3-4% of 20528 27.00 28.00 1.00 3520 3.52 Image: construct of the stringers making up 3-4% of 20529 28.00 29.00 1.00 3070 3.07 Image: construct of the stringers making up 3-4% of 20529 28.00 29.00 1.00 3070 3.07 Image: construct of the stringers making up 3-4% of 20529 28.00 29.00 1.00 3070 3.07 Image: construct of the stringers making up 3-4% of 20529 28.00 29.00 1.00 3070 3.07 Image: construct of the stringers of		i		Í	is non magnetic and does not react to HCL. A few minor	20526	26.00	26.62	0.62	3120	3.12	1	ł	1	1	1
Image: state of the state		i		Ì	quartz veinlets generally less than couple of cm and a	20527	26.62	27.00	0.38	789	0.789	1	1	1	1	ł
at best. Numerous fractures through out intereval, again 20530 blank 15 0.015 16 these are generally at 40 and 70 deg in general. Some minor 20531 29.00 30.00 1.00 >5000 9.35 16 slip planes as well at 10 -15 deg to CA. This unit is 20532 30.00 31.00 1540 1.54 16 16 considered massive in appearance as no other significant 20533 31.00 32.00 1.00 362 0.362 16 16 volcanic textures observed. 20535 33.00 34.00 1.00 531 0.531 16.531		i	i i	Ì	number of wispy quartz calcite stringers making up 3-4% of	20528	27.00	28.00	1.00	3520	3.52	1	1	1	1	I
ithese are generally at 40 and 70 deg in general. Some minor 20531 29.00 30.00 1.00 > 5000 9.35 Image: some minor Image: some minor 20532 30.00 31.00 1.00 > 5000 9.35 Image: some minor Image: some minor Image: some minor 20532 30.00 31.00 1.00 1.540 1.54 Image: some minor 1.00 1.00 1.540 1.54 Image: some minor Image: some minor <td< td=""><td></td><td>Ì</td><td></td><td>Ì</td><td>unit at various orientations. Sparse sulphide, trace pyrite</td><td>20529</td><td>28.00</td><td>29.00</td><td>1.00</td><td>3070</td><td>3.07</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></td<>		Ì		Ì	unit at various orientations. Sparse sulphide, trace pyrite	20529	28.00	29.00	1.00	3070	3.07	1	1	1	1	1
Image: style planes as well at 10 -15 deg to CA. This unit is 20532 30.00 31.00 1.00 1540 1.54 Image: style planes Image: style planes as well at 10 -15 deg to CA. This unit is 20532 30.00 31.00 1.00 1540 1.54 Image: style planes Image: style planes as well at 10 -15 deg to CA. This unit is 20533 31.00 32.00 1.00 362 0.362 Image: style planes Image: style planes as well at 10 -15 deg to CA. This unit is 20534 32.00 33.00 1.00 362 0.362 Image: style planes Image: style planes as well at 10 -15 deg to CA. This unit is 20534 32.00 33.00 1.00 17 0.017 Image: style planes Image: style planes as well at 10 -15 deg to CA. This unit is 20535 33.00 34.00 1.00 531 0.531 Image: style planes		i	i	İ	at best. Numerous fractures through out intereval, again	20530	blank		1	15	0.015	1	ł	1	1	I
iconsidered massive in appearance as no other significant 20533 31.00 32.00 1.00 362 0.362 I		i		i	these are generally at 40 and 70 deg in general. Some minor	20531	29.00	30.00	1.00	> 5000	9.35	1	1	1	1	Í.
volcanic textures observed. 20534 32.00 33.00 1.00 17 0.017 I		i	1	i	slip planes as well at 10 -15 deg to CA. This unit is	20532	30.00	31.00	1.00	1540	1.54	1	1	1	1	1
volcanic textures observed. 20534 32.00 33.00 1.00 17 0.017 1 1 1 1 20535 33.00 34.00 1.00 531 0.531 1 1		i		i	considered massive in appearance as no other significant	20533	31.00	32.00	1.00	362	0.362	1	1	1	Ì	I
		i	Ì	i		20534	32.00	33.00	1.00	17	0.017	I	I	ł	!	I
20536 34.00 35.00 1.00 629 0.629		i		Ì		20535	33.00	34.00	1.00	531	0.531	1	I	I	ł	1
		1		Ì	1	20536	34.00	35.00	1.00	629	0.629	1	1	1	1	I
		i	1	1	1	1	1	1	1	1	l.	ļ	l	1	1	1

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 26.62 	1 70 147.90 1 continued 1 1 1 1	Rock Type Mafic Volcanic' (Basalt) continued 	Code 2MS 	[Description [at 35.00 to 47.90 m. [Continuation of massive mafic volcanic as per description [above from 26.62 to 35. This particular interval is [exceptionally blocky and broken up fronm 34.95 to 38. It is [thought to represent a brittle fault zone with numerous [slips generally from a few degrees to 15 deg to CA with [centre of fault zone associated with slip plane at 2-3 deg [to CA at 36.5 to 36.90. Again extremely hard unit, fine	Sample# 20537 20538 20539 20540 20541 20542 20543 20544	From 35.00 36.00 37.50 std221 39.00 40.50 42.00 43.50	To 36.00 37.50 39.00 4 4 40.50 42.00 43.50 45.00	Meters 1 1.00 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50	Auppb 1460 1140 > 5000 1050 > 5000 26 140 > 5000	Au g/t 1.46 1.14 10.9 1.05 7.89 0.026 0.14 5.12	Pt ppb 	Pt g/t 	Pd ppb	Pd g/t	
				It CA at 30.5 to 30.50. Again externery hard drift, line Igrained, non magnetic unit with no HCL reaction. A few Irare quartz stringers and veinlets, not significant. I Localized pyrite clot or stringer noted but overall trace Ipyrite. Some localized patchy bleaching as per section Ifrom 45-45.75. Very sharp well defined lower contact at I 20 deg to CA.	20544 20545 20546 20547 	43.50 45.00 46.00 47.00	43.00 46.00 47.00 47.90	1.00 1.00 0.90 	63 87 35 	0.063 0.087 0.035					
47.90 	55.00 	Diorite	6D 	This is a reddish (hematite altered) medium grained unit [composed of quartz, plagioclase and minor ferro mag [minerals. Difficult to ascertain mineral make up due to [relatively intense pervasive alteration. Unit is hard but can [be scratched with a knife with effort. Overall maximum [of 1/2 % pyrite generally disseminated with occassional [clot and stringer. Some wispy quartz calcite micro stringers [and rare quartz carb stringer noted from upper contact to [51m. Unit itself has moderate HCL reaction & is strongly [magnetic. Very competent unit with occassional rare slip [plane, exception to this is an interval from 54 m to lower [contact which is section of broken rubble possibly [representing a brittle fault zone contact.]	20548 20549 20550 20551 20552 20553 20554 20555	 47.90 49.00 blank 50.00 51.00 52.00 53.00 54.00 	49.00 50.00 51.00 52.00 53.00 54.00 55.00	1.10 1.00 1.00 1.00 1.00 1.00 1.00 1.00	20 11 25 18 28 22 7 < 5 	0.02 0.011 <0.005 0.018 0.028 0.022 0.007 <0.005					
55.00 	56.82 	Mafic Volcanic (Basalt) 	2MS	This is a very fine grained, massive, light grey colored unit (that is very hard and thought to be silicified. A number of [small quartz stingers occassional veinlet of quartz as well [generally less than 3-4 cm often containing pyrite. [Also some pyrite stringers as well and [pyrite content at about 3% overall. Unit is [magnetic for most part. Unit has no HCL reaction. Fairly [competent unit with a few fractures at 30-35 deg to CA. [Lower contact at 45 deg to CA; sharp contact some chalco [stringers on contact with some pyrite.]	20556 20557	55.00 56.00 1 1 1 1 1 1 1 1	56.00 56.82	1.00 0.82 1 1 1 1 1 1 1 1 1 1 1 1 1	64 161 	0.064 0.161					
56.82 	60.00 	Gabbro 	6G 	This is medium to coarse grained dark grey colored gabbro with quartz, plagioclase and ferro mag minerals dominated by plagioclase and ferro mag minerals. Minor quartz veinlets at 57.10-57.25 and 59.25-59.35. Numerous large leucoxenes noted 10-15 cm on each side of 2nd veinlet.	20558 20559 20560	56.82 57.25 std221	57.25 58.00	0.43	60 35 1070	0.06 0.035 1.07 					

I	To	Rock Type	Code	Description	Sample#	ł	From	То	Meters	Au ppb	Aug/i	Ptp	pb	Pt g/t	Pd ppb	Pd g/t	I
56.	82 60.00	Gabbto	6G	Trace of pyrite observed and fair amount of magnetite, and	1	l		•	1	1	1	I	1		1	1	1
1	IEOH	continued	1	Ithus unit strongly mangnetic. Unit is relatively competetent	20561	ł	58.00	59.00	1.00	147	0.147	I	1		1		1
	1	ł	I	with some minor fractures generally oriented at 60-70 deg	20562	1	59.00	59.50	0.50	24	0.024	1			1	1	1
I	1	1	I	Ito CA. A small fault present at 58.5-58.75 at about 10 deg	20563	1	59.50	60.00	0.50	86	0.086	1	1			Į	1
1	ł	1	1	to CA. Minor quartz within fault zone. This unit is hard & can	1	1		1	ł	ł	1	1	1		1	1	1
1		I	1	be scratched with knife with difficulty. The unit does not	ł	1		ļ	ł	1	1	1	1		ł		1
1	1		1	have an HCL reaction, some HCL reaction associated with	1			1	1	1	1	1	1		1	l	I
1	ł	I	I	quartz vein at 59.25-59.35.	1			1	1	1	ł	1	1		ł	1	
1		1	1		ł	ł		1	1	ł	ļ	1	I		1	ł	
1	I I		I I	EOH: 60 M. Core stored at Pelangio office in Connaught	1	1		1	1	1	ł	1	1		1	I	I
	1	1	1	Ontario.	J			1	I	ł	1	1	ł		ł	1	1
1	1	1	1		I	1		1	1	ł	1	1	I		1	l	1
ł	Í	Ì	1	[Tests: Corrected test at 60 m. Azimuth (196 deg) thought to be	I	T		1	1	1	1		- I		1	I	1
1	i i	i i	ł	questionable due to substantial magnetics at end of hole	1	1		1	1	ł	I	1			1	ł	1
	1	1	1	and dip taken as accurate at 46.1 degrees. However, azimuth	I	I		1	1	1	1	1	1		1	1	L.
1	1	l I	1	does match collar az of 197 closely so data will be used.	1	I		I	I	1	I	1	1		ł	ł	1

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Prospect: G DDH: JS200 Core Size:N CLAIM: L51	05 IQ	haft Area Azimuth/Dip: 197 Tests: see last pa EOH:125.50		Grid Location: N/A Off Grid See UTM UTM:560318E 5336214N Nad 83 Zone 17 Date Started:Jan 21/20 Date Comleted: Jan 23/20 Core Storage: Pelangio Field Office Connaught Ontario	Drill Compar NPLH Drillin Logged by: K. Filo		Completion February 2 2	of Logging: 2020							
	To 3.00	Rock Type Casing	l Code ICAS	l I Description Note, casing left in hole.	Sample#	 From	 To 	Meters	Au ppb	Au g/t	 Pt ppb	 Ptg/t 	Pd ppb	Pd g/t	
3.00	44.00	Gabbro		at 3.00 to 20 m. This is a coarse grained, dark grey colored rock, with typical lplagioclase, ferro mag minerals and some quartz for lminerology. Ferro mag minerals dominant proportion wise. The unit is hard and can be scratched with some effort with la knife. No signifiant quartz veining observed but a few lepidote stringers noted. Very competent unit with a few lminor slips at 10-15 deg to CA. Some fractures at 30 and 170 deg to CA in general. The unit has 1-2% fine diss. Pyrite lthroughout unit. The unit has no HCL reaction and overall la weakly to strongly magnetic interval. at 20.00 to 36.80 m Continuation of gabbro unit as described above from 3.00 Ito 20 m. Very few quartz veinlets noted (rare) but of note la small veinlet from 36.36 to 36.46 with numeous specks land smeared VG. Some leucoxene present in gabbro wall rock of veinlet. Some bleaching of gabbro noted from 24.00 Ito 24.30 and 33 to 33.70. A few epidote stringers noted lin this interval as well. Again some pyrite present but in the lorder of 1% maximum overall in disseminated form. Unit lhas variable response to magnet, basically non magnetic lfrom 20-27 m and beyond this spoadic response from weak lto strongly magnetic. No respose to HCL. Again a very lcompetent unit with no major faults, some minor slips at 15 lto 20 deg to CA in general. Fractures at 45 and 70 deg to ICA in general. at 36.80 to 44.00 Continuation of gabbro unit as described above from 3.00 tto 20 m described initially for this unit. Again this interval lis coarse grained, dark grey in color and still very hard but Jcan be scratched with a knife with some effort. Unit has no IHCL reaction and it has a variable response to magnet I/ anging from moderate to non magnetic. Some minor quartz lstringers noted from 37.5 to 38 associated with minor lleucoxe	20564 20565 20566 20567 20568 20569 20570 20571 20572 20573 20574 20575 20576 20577 20578 20579 20580 20581 20582 20583 20584 20585 20586 20587 20588 20588 20590 20591 20592 20593 20594 20595 20597 50598 20597 50598 20599 20599	3.00 4.50 6.00 7.50 9.00 10.50 blank 12.00 13.50 15.00 15.00 15.00 15.00 15.00 21.00 22.50 24.00 25.50 27.00 28.50 30.00 31.50 33.00 34.00 35.00 36.00 36.00 37.50 38.00 37.50 38.00 37.50 38.00 37.50 38.00 37.50 38.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00 43.00 42.00	4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 16.50 18.00 19.50 21.00 22.50 24.00 25.50 30.00 31.50 36.00 36.26 37.50 38.00 40.50 42.00 43.00 44.00	1 1.50 1 1.00 1 1.00 1 1.00 1 0.50 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00 1 1.00	<pre>< 5 1 17 640 9 249 7 249 7 </pre> 7 7 1 249 1 5 1 288 1 15 1 288 1 122 1 5 1 288 1 1080 94 1 66 1 231 1 107 558 753 1 76 1 49 6 231 1 107 558 753 1 776 49 6 2370 1 1020 1 4230 1 1490 566 463 1 090	<0.005					

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<i>From</i> 3.00 	70 44.00 	I Rock Type IGabbro I(continued I	<i>Code</i> 6G 	Description Pyrite content minimal estimate of 0.5-1%. Some epidote stringers observed occassionally as well. Relatively competent interval; again some minor slips at 10-15 deg to CA. and fractures generally at 30 deg to CA.	Sample# 	From 	To 	Meters	Au ppb 	Aug/t	i Pt ppb	Ptg/t	Pd ppb	Pdg/t 	
44.00 	48.40	 Fault Zone 	1 FZ 	I This is a blocky broken fault zone with numerous slips land ground up rubble. The brittle fault appears to be hosted within a chilled and slightly more medium grained gabbro lbut typical of unit describe prior to fault. The host rock is non magnetic, has no HCL reaction and is a dark grey color. A few small quartz microstingers observed and some lepidote stringers as well. No significant sulpide noted and lower contact of fault at 20 deg to CA.	20601 20602 20603	44.00 45.00 46.50	45.00 46.50 48.00	1.00 1.50 1.50 	404 688 1530 	0.404 0.688 1 1.53					
48.40	 57.95 	 Mafic Volcanic (Basalt) 	2MS 	Very fine grained massive mafic volcanic that this light lyrey in color. Very minor quartz veining noted, a few (microstingers of epidote noted. Variable response to Imagnet from very weak to moderate and no response to IHCL. Some magnetite observed in unit and minor pyrite, (trace. Unit is extremely hard, (silicified?)but can be (scratched with a knife with effort. This is a competent (unit with a number of small slips at 10-15 deg to CA and (some fractures at 70 and 30 deg to CA in general. Lower (contact at 40 deg to CA associated with minor slip plane (with a vuggy quartz stringer.	20604 20605 20606 20607 20608 20609 20609 20610 20611 20611	1 48.00 1 48.40 1 49.50 1 51.00 1 52.50 1 54.00 1 55.50 1 57.00 1 1	48.40 49.50 51.00 52.50 54.00 55.50 57.00 57.95	0.40 1.10 1.50 1.50 1.50 1.50 1.50 1.50 0.95 	 557 52 173 221 228 90 < 5 4860 1700 	0.557 0.052 0.173 0.221 0.228 0.09 <0.005 4.86 1.7					
57.95	 62.05 	 Mafic Dyke 	 6U 	This unit appears to be a fine to medium grained grey [black colored dyke with sub angular fragments of more [felsic unit (granodiorite?). This unit is fairly hard but can [be scratched with a knife with a effort. Minor pyrite, trace [and a few minor quartz calicte stringers (HCL reaction), but [no HCL reaction in unit itself. Unit is strongly magnetic. [A few epidote stringers and patchy epidote alteration [locally. This is a competent unit for the most part with [a few fractures noted at about 45 deg to CA. Small brittle [blocky broken fault basically ground rubble from 60.55 [to 70.75. Upper contact of fault at 45 deg to CA. Lower [contact sharp but erratic.]	20613 20614 20615 20616 20617 	1 57.95 1 59.00 1 60.00 1 61.00 1 62.05 1 1 1 1 1 1 1 1 1 1	59.00 60.00 61.00 62.05 63.00 1 1 1 1 1	1 1.05 1 1.00 1 1.00 1 1.05 1 0.95 1 1	328 169 171 293 19 	0.328 0.169 0.171 0.293 0.019 1 1 1 <					
 62.05 	71.05	 Diorite 	 6D 	This is the same diorite unit as described in JS2004. It is composed of quartz, feldspar and minor mafic minerarals. This particular portion appears to contains signficant quartz In this particular interval again farily strong pervasive Ihematite alteration to about 66.9 giving unit its redish color.	20618 20619 20620 20621 	63.00 64.00 std221 65.00	64.00 65.00 66.00	1.00 1.00 1.00	12 8 1070 12	0.012 0.008 1.07 0.012	1 1 1 1	1 1 1 1 1 1			

<i>From</i> 62.55 	To 71.05 	<i>Rock Type</i> Diorite (continued) 	<i>Code</i> 6D 	[Description [When alteration is weak and not pervasive more of a [salmon grey color. Estimate of 1/2 to 1% pyrite overall, [but locally 2-3% over short intervals of 30 cm or so. [The unit is medium grained, and of moderate hardness and [strongly magnetic. Some minor quartz carb microstingers [observed, these make up less than 1% of unit. A number of [minor slips noted at 10-15 deg to CA and fracture planes [at 30 and 60 deg to CA in general. Lower contact blocky [and broken typical of a brittle fault (rubble) for last 40 cm [prior to contact. Lower contact with quartz vein at 50 deg [to CA. Note, unit has weak HCL reaction.	Sample# 20622 20623 20624 20625 20625 20626	From 66.00 67.00 68.00 69.00 70.00	70 67.00 68.00 69.00 70.00 71.05 	Meters 1.00 1.00 1.00 1.00 1.00 1.00 1.05 1 1.05 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Auppb 7 25 7 1 25 1 7 18 18	Au g/t 0.007 0.007 0.025 0.007 0.018	Pt ppb 	Ptg/t 	Pd ppb	Pd g/t 	
 71.05 	71.55	 Quartz Vein 	l IQv	l White quartz vein, no significant mineraliazation Jobserved. Lower contact at 45 deg to CA.	 20627 20628	71.05 71.55	71.55 72.00	0.50 0.45	 11 36	0.011	1 		 	1 1 2	
		 Gabbro 		I at 71.55 to 90.00 This is a light grey medium to coarse grained gabbro unit Ithat is comprised of plagioclase, quartz and ferro mag Iminerals, unit appears to be dominated by feldspar. IStrongly mangetic unit overall with some minor sections Igenerally less than a meter that have a weak magnetic Iresponse. Some very rare quartz calcite stringers noted Iat 79.5 and throughout this interval a number of minor Iepidote stringers generally parallel to fractures. Overall Ia very competent unit with fractures at 60 and 45 deg to ICA in general and a number of minor slips at 20 deg to CA. INo HCL reaction in unit. Some weak bleaching in unit from I79-81m, patchy. Trace of pyrite at best and magnetite noted Iat 90.00 to 101.90 Istill a gabbroic unit but is more medium grained and on fresh Idry surface it has a bleached light grey color (wk albitic alter?) IAgain this section of gabbro has plagoclase as the most Ioominant mineral and substantial ferro mag minerals as well Iand some quartz. Strongly magnetic unit primarily as a Iresult of magnetite content. This interval has more pyrite Ithan last interval, estimate of 1% overall but minor sections Iowinant minerval as at 94.80 to 95.30 (epidote patches not Icommon). Quartz stringers extremely rare, one no	20629 20630 20631 20632 20633 20634 20635 20636 20637 20638 20639 20640 20642 20642 20643 20644 20645 20645 20646 20645 20646 20645 20646 20647 20650 20651 20652 20653 20654 1 1 1 1	1 72.00 1 blank 1 73.50 1 75.00 1 76.50 1 78.00 1 79.50 2 81.00 1 82.50 1 85.50 1 85.50 1 87.00 1 90.00 1 92.00 1 92.00 1 95.00 1 96.00 1 99.00 1 101.00 1 101.00	i 73.50 i 75.00 i 76.50 i 78.00 i 79.50 i 81.00 i 82.50 i 84.00 i 85.50 i 87.00 i 90.00 i 91.00 i 92.00 i 95.00 i 96.00 i 96.00 i 90.00 i 101.00 i 101.90	1.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.90 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 < 5	0.02 <0.005					

From 71.55 	7o 101.90	Rock Type Gabbro (continued) 	<i>Code</i> 6G 	Description Unit is very had but can be scratched with knife with an leffort. No HCL reaction noted. Lower contact sharp at 20 ldeg to CA, some minor gouge on fault slip plane.	Sample# 	From 	To 	Meters 	Au ppb 	Aug/t 	Pt ppb 	Ptg/t 	Pd ppb 	Pdg/t 	
101.90 	104.30 	 Fault Zone 	 Fz 	This fault zone is typical of the faulting noted to date, a brittle blocky broken zone with numerous slip and fractures. There is some minor gouge observed on some of the slip planes observed. The host rock of the fault is a gabbro, that is grey black in color, medium to coarse grained and lit has a variable response to magnet. There are a few minor quartz and quartz calcite stringers associated with Isome minor leucoxenes from 103.5 to 103.70. Outside of Ithis no sigificant veining. A few rare epidote stringers Inoted. The unit is of moderate hardness and it has no HCL reaction. Trace of pyrite at best and magnetite noted. Lower contact at 60 deg to CA on slip with minor gouge.	20655 20656	 101.90 103.00 	 103.00 104.30 	1.10 1.30 1 1 1 1 1 1 1 1 1	 5 	 0.005 0.005 					
		Gabbro	6G	Again this a gabbro unit as described in the initial portion of this hole with respect to Imineralogical make up. The unit is light grey on the fresh ldry surface and exhibits a bleached appearance. The unit appear slightly more bleached. The unit has some minor ldisseminated pyrite, estimate of 1/2 to 1% overall. For the lmost part this interval is strongly magnetic, coarser portions lare most magnetic and magnetite observed in these areas. The unit is hard but can be scratched with a knife with leffort. Some minor epidote stringers and minor patchy lepidote observerd over a few cms or so. A few small quartz calcite stringers between 111 & 112 m. These small lyeinlets generally less than a couple of cm oriented at 60 ldeg to CA and 20 deg to CA (two sets). Some leucoxene Inoted in wall rock adjacent veinlets. A small fault from 1111.3 to 111.6 running sub paralle to CA associated with lstringers of quartz. The unit does not react to HCL. IRelatively competent unit with some slips ranging from Isubparallel to CA to about 20 deg to CA in general and Isome fractures noted at 30 and 45 deg to CA generally. IEOH 125.50 Tests 125.5 m: 212.40 and dip of -61 deg, corrected Az of [201.40 deg.	20657 20658 20659 20660 20661 20662 20663 20664 20665 20665 20666 20667 20668 20669 20670 20671 20672 20673 20673 20674 20675 20676 20677	104.30 105.00 106.50 blank 109.00 110.00 111.00 111.00 111.00 111.00 111.00 111.00 112.00 113.00 114.00 115.00 116.00 118.00 121.00 122.00 122.00 122.00 124.00	105.00 106.50 108.00 109.00 110.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 111.00 112.00 121.00 122.00 122.00 122.00 125.50	0.70 1.50 1.50 1.50 1.50 1.00 1.50 1 1	$\begin{vmatrix} < 5 \\ & 7 \\ & 94 \\ & 5 \\ & 7 \\ & 6 \\ & < 5 \\ & 8 \\ & 12 \\ & < 5 \\ & 5 \\ & 5 \\ & 5 \\ & 5 \\ & 6 \\ & < 5 \\ & 6 \\ & < 5 \\ & 6 \\ & < 5 \\ & 7 \\ & < 5 \\ & 5 $	<0.005					
				[60m:205.6 m: 205.6 and dip of -60.9 deg, corrected Az of [194.6 Az. [Note some issues with az as this core exceptionally [magnetic. Bottom test does concur reasonably with collar			 	 	 	· · · · · · · · · · · · · · · · · · ·		 			

From	To	Rock Type	Code	Description	Sample#	Fi	om	То	Meters	Au ppb	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	1
1	1	l	1	azimuth.	-	- I	ł		1	Į	1	ļ		1	1	1
1	1		1			1	ł		1	1	1	[1	l	1
1		ł	ļ	Core stored at Pelangio field office in Connaught Ontario.	ł	ł	ł		I	I	I	1			1	1

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Prospec DDH: JS Core Siz CLAIM: I	e:NQ	haft Area Azimuth/Dip: 19 Tests: see last p EOH:53.50		Grid Location: N/A Off Grid See UTM UTM:560318E 5336214N Nad 83 Zone 17 Date Started:Jan 23/20 Date Comleted: Jan 24/20 Core Storage: Pelangio Field Office Connaught Ontario	Drill Compa NPLH Drillin Logged by: K. Filo		Completion February 4 2								
From 0.00	70 2.30	Rock Type	Code	l Description Note, casing left in hole.	Sample#	From	То	 Meters 	l Auppb	Au g/t	Pt ppb	Ptg/t	Pd ppb	Pdg/t	
		Gabbro	6G	I at 2.30 to 38.25 I This is a very homogeneous looking interval of gabbro I composed typically of plagioclase, ferro mag minerals and I some quartz. Ferro mag minerals (amphiboles mainly) fairly I dominant 50% plus of gabbro make up. Unit is a dark grey I color and ranges from medium to coarse grained. The unit I is hard but can be scratched with knife with effort. Some I patchy localized epidote alteration observed and a few I epidote stringers. Relatively competent unit with a number I of slips at 10-15 deg to CA.; one minor fault noted with I some oxidation on fault plane at 8.6m, this minor fault at 20 I deg to CA. Also unit has few fractures at 45 and 70-80 deg I to CA in general. The unit is strongly to moderately magnetic I with some exceptions over very short intervals. The unit I has no HCL reaction. No significant quartz veining but a I small grey black quartz vein a couple of cm wide noted at I 33.45-33.47. Estimate of overall pyrite content is 1% and I mainly dissemainated and with rare pyrite stringer. Note at I 5-18 m slightly more pyrite perhaps 2-2.5%.	20679 20680 20681 20682 20683 20684 20685 20686 20687 20688 20689 20690 20691 20692 20693 20694 20695 20696 20697 20698	2.30 blank 3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 15.00 16.50 19.50 21.00 22.50 24.00 25.50 27.00	3.00 4.50 6.00 7.50 9.00 10.50 110.50 112.00 13.50 15.00 16.50 19.50 21.00 22.50 24.00 25.50 27.00 28.50	I 0.70 I 1.50 I 1.50	264 < 5	0.264 <0.005					
38.25 	41.15 	Fault Zone	FZ 	Again a very brittle and blocky fault zone typical of that found in the gabbroic rock on this prospect. Section of ground rock (rubble) along with more consolidated sections. Fault hosted in a gabbroic host that is grey in color and generally medium to fine grained and lighter grey color. Some minor gouge noted along slip planes and sometimes Jassociated with very broken blocky sections. Some quartz lveining within fault; of particular note is a vein from 38.30 Ito 38.9. This quartz vein has an upper contact associated with oxidized slip at 45 deg to CA. Lower part of vein from J38.6 breaks off into a series of erraticaly oriented velnlets. Lower contact of fault associated with slip plane and gouge Jat 25 deg to CA; minor quartz on slip plane. Gabbro host rock strongly magnetic, and hard to scratch with knife. Weak HCL reaction in gabbro. Trace of pyrite jin the fault zone.	200598 20699 20700 20701 20702 20703 20704 20705 20706 20706 20707 20708 20709 20710 20711 20711	27.50 28.50 30.00 31.50 33.00 33.30 33.60 34.00 35.00 36.00 37.50 38.30 50.00 37.50 38.30 50.00 38.30 50.00 37.50 38.30 50.00 38.30 50.00 38.30 50.00 38.30 50.00	20.50 30.00 31.50 33.00 33.30 33.60 34.00 35.00 36.00 37.50 38.30 40.40 41.15	1.50 1.50 1.50 1.50 1.50 1.50 1.50 0.30 0.30 0.40 1.00 1.50 1.50 0.40 1.50 0.40 1.50 0.80 0.60 1 1.50 0.75 1 1 1	1 36 1 14 1 9 1 28 1 8 1 12 1 12 1 12 1 12 1 12 1 12 1 8 1 1090 1 68 1 20 1 5 1 17 1 92 1 1	0.036 0.014 0.009 0.028 0.008 0.015 0.012 0.012 0.008 1.09 0.068 0.005 0.005 0.005 0.005 0.017 0.092					

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JS2006print

| To | Rock Type | Code | | Sample | 1 | From | L | То

 | 1 | Meters | 1

 | Au ppb | 1
 | Au g/t | Pt pp | 6 | Pt g/t
 | Pd ppb | Pd g/t | I. |
|-------|-----------|------|--|---|--|---|---
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| 53.50 | Gabbro | 6G | This is again a grey colored medium to coarse grained | 2071; | 8 | 41.15 | | 42.00

 | | 0.85 | 1

 | 80 |
 | 0.08 | 1 | |
 | ļ | _ | |
| 1 | I | ł | gabbro with ferro mag minerals being the dominant mineral, | 20714 | | 42.00 | | 43.50

 | I | 1.50 | Ì

 | 113 | 1
 | 0.113 | ł | I |
 | I | ł | ł |
| 1 | | I | plagioclase and quartz also noted. The unit is fairly hard but | 2071 | 5 | 43.50 | ļ | 45.00

 | | 1.50 | 1

 | 298 | 1
 | 0.298 | 1 | |
 | 1 | I | 1 |
| 1 | | 1 | can be scratched with knife with effort. Unit is strongly | 2071 | 5 | 45.00 | | 45.83

 | | 0.83 | T

 | 25 | 1
 | 0.025 | I | ļ |
 | 1 | I | ł |
| i i | 1 | 1 | Imagnetic & magnetite grains observed in coarser sections. | 2071 | 1 | 45.83 | ł | 46.15

 | 1 | 0.32 | T

 | > 5000 |
 | 26.5 | 1 | 1 |
 | I | I | 1 |
| i | 1 | Į. | The unit has no HCL reaction and with regard to alteration | 2071 | | 46.15 | 1 | 47.00

 | 1 | 0.85 | ł

 | 73 | I
 | 0.073 | 1 | |
 | I | 1 | 1 |
| i | 1 | ł | some minor epidote stringers present and some patchy | 20719 | | 47.00 | 1 | 48.00

 | 1 | 1.00 | Ì

 | 78 | ł
 | 0.078 | 1 | 1 | | | | | |
 | 1 | 1 | 1 |
| i | Ì | Î | weak localized epidote alteration. Some rare sections | 2072 | | std221 | 1 |

 | ł | | 1

 | 1170 | 1
 | 1.17 | 1 | |
 | t | ł | 1 |
| i | 1 | ſ | generally less than 10 cm with some leucoxene. Fairly | 2072 [.] | | 48.00 | Ĩ. | 49.50

 | Ì | 1.50 | Ì

 | 272 | Ì.
 | 0.272 | 1 | 1 |
 | 1 | 1 | 1 |
| i | Ì | i | competent interval with typical slip planes at 15-20 deg to | i 2072 | 2 | 49.50 | Ì. | 51.00

 | Ì | 1.50 | i

 | 24 | Ì.
 | 0.024 | 1 | Í |
 | 1 | 1 | Ì |
| i | 1 | i | CA and some fractures generally at 45 and 70 deg to CA. | 2072 | 8 | 51.00 | Ì | 52.50

 | Ì | 1.50 | i

 | 136 | Í.
 | 0.136 | 1 | 1 |
 | 1 | ļ | 1 |
| i | 1 | i | Sulphide content mainly pyrite is minimal, estimate of 0.5%. | i 20724 | ı i | 52.50 | i | 53.50

 | i | 1.00 | i

 | 794 | i
 | 0.794 | i | İ | | | | | |
 | 1 | | i |
| i | 1 | Ì | Minimal quartz stringers but of note is a small quartz veinlet | i | i | | i |

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 | | i | Í | | | | | |
 | 1 | 1 | Ì |
| i | | i | with VG at 45.92-46.08 associated with a slip plane at 20 | i | i | | i |

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 | 1 | ĺ | i – |
| i | 1 | i | Ideg to CA. Weakly bleached on dry surface at 46.08 to EOH | i | i | | i |

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 | 1 | l | İ |
| i | | i | IEOH: 53.50 (Hole lost in mine workings) | i | i | | i |

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| 1 | i | i | Note: No test taken in this hole as hole entered a void | i | i | | i |

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| 1 | 1 | ł | Core stored at Pelangio's field office in Connaught Ont. | i | i | | i |

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Prospect DDH: JS Core Siz CLAIM: L	2007 :e: NW	GX SW Zone Azimuth/Dip: 130 Tests: see last p EOH:90.00		Grid Location: Line 3W 150 N (SGX Historical Grid 2012) UTM:559992E 5336066N Nad 83 Zone 17 Date Started:Jan 30/20 Date Completed: Feb.1/20 Core Storage: Pelangio Office Connaught Ontario	Drill Compa NPLH Drillin Logged by: K. Filo		Completion February 7,	of Logging: 2020							
 <i>From</i> 0.00	1 70 12.15	l ∣ Rock Type ∣Casing	l <i>Code</i> CAS	l I Description INote, casing left in hole.	Sample#	From	То	Meters	Au pob	Au a/t	Pt ppb	Ptg/t	Pd ppb	l Pdg/t	
10.00	12.10				1	• †	I	1	1	1	1	1	r [1	i
2.15	55.00	Gabbro	6G	At 2.15 to 18.40	20725	2.15	3.00	0.85	11	0.011	1	i	i	i	i
1	ł	i	Í	This unit is a medium to coarse grained gabbro unit made	20726	3.00	4.50	1.50	8	0.008	1	1	1	1	Ι.
1	1	Í	1	up of plagioclase, ferro mag minerals and some quartz. The	20727	4.50	6.00	1.50	6	0.006	1	1	1	1	
1	İ	Ì	i	Junit is light grey in color & fairly hard but can be scratched	20728	6.00	7.50	1.50	35	0.035	1	1	1	1	ł
1	Í	ł	Ī	with a knife with some effort. Variable response to magnet	20729	7.50	9.00	1.50	i 17	0.017	1	I	I	1	ł
1	1	Í	1	and in extremely magnetic areas some magnetite observed.	20730	blank	ł	I	6	0.006	1	1	1	1	
1	1	1	1	The unit has no response to HCL. Some patchy epidote	20731	9.00	10.50	l 1.50	9	0.009	1	1	1	1	I.
1	1	1	1	alteration observed along with some epidote stringers. A	20732	10.50	12.00	1.50	20	0.02	1	1	ł	i	L
1	1	Í	1	few minor quartz calcite stringers; these make up 2% of	20733	12.00	13.50	1.50	< 5	<0.005	1	1	ļ	1	1
1	1			this interval maximum. Unit has some disseminated pyrite	20734	13.50	15.00	1.50	11	0.011	1	1	1	ļ	ł
1	1	1		estimate of 1% total overall. Competetent unit for the most	20735	15.00	16.50	1.50	20	0.02	1	ł	1	1	L
1	1	Ì	1	part but a signficant amout of fractures with most	20736	16.50	18.00	1.50	15	0.015	1	1	1	1	
1	ł	1	ł	prominent set at 60 deg to CA. A number of small slips	20737	18.00	19.50	i 1.50	57	0.057	1	1	1	1	I
1	1	1	1	generally at 15-20 deg to CA.	20738	19.50	21.00	1.50	15	0.015	1	1	ł	1	ł
1	1	1	1		20739	21.00	22.50	1.50	6	0.006	1	1	1	t	ł
1	1	1	1	At 18.40 to 35.32	20740	std221	1	ł	1090	1.09		1	1	1	i.
1	1	Ì	1	Description of gabbro unit as per initial description above.	20741	22.50	24.00	1.50	6	0.006	1	ł	ł	1	L
1	1	1	1	Still a fairly coarse grained unit that is light grey in color.	20742	24.00	25.50	1.50	< 5	<0.005	1	1	1	1	L
1	1	1	1	Some sections of patchy epidote alteration noted and some	20743	25.50	27.00	1.50	< 5	<0.005	1	1	ł	1	I.
1	1		ł	stringers of epidote noted as well. Again unit is hard but	20744	27.00	28.50	1.50	7	0.007	1	1	I	1	ł
1	1	Ì	1	can be scratched with knife with effort and unit has no	20745	28.50	30.00	1.50	9	0.009	1	1	ł	1	I.
1	j	Ĵ	1	JHCL response. Some minor quartz calcite veinlets about	20746	30.00	31.50	1.50	6	0.006	1	1	1	I	
1	1	Ì		2 cm wide, less than 0.5% of unit. The interval is non	20747	31.50	33.00	1.50	< 5	<0.005	1	1	1	1	ł
1	1		1	magnetic with a rare instance or two where there is some	20748	33.00	33.32	0.32	6	0.006	1	1	ł	ļ	I
I	i	1	l	Imagnetic response. Relatively competetet interval with	20749	33.32	34.00	0.68	5	0.005	1	1	1	ļ	1
1	i	ł	Í	same fracture and slip pattern described above. From	20750	34.00	35.00	1.00	6	0.006	1	1	1	1	Ł
ł	i.	1	Í	33-33.32 small section of hematitic alteration associated	20751	35.00	36.00	1.00	6	0.006	1	1	I.	1	
l	i	1	Í	with small quartz calcite veinlet from 33.27-33.32. Sparse	20752	36.00	36.75	0.75	< 5	<0.005	1	1	1	1	1
1	i	1	i	pyrite content, trace to 0.5%.	20753	36.75	37.03	0.28	8	0.008	1	1	ļ	1	Ł
1	i	Ì	Í		20754	37.03	38.00	1 0.97	8	0.008	1	1	1	1	ł
1	i	I	Ì	At 35.32 to 55.00	20755	38.00	39.00	1.00	< 5	<0.005	I	ł	1	1	I
1	i			Continuation of gabbroic unit as per inititial description in this	20756	39.00	40.50	1.50	< 5	<0.005	l	1	1	ł	1
ł	i	1		hole. This particular interval is coarse grained and grey in	20757	40.50	42.00	1.50	< 5	< 0.005	1	1	ł	1	I
1	i		i i	color. This section is strongly magnetic beyond 39 m and	20758	42.00	43.50	1.50	< 5	< 0.005	1	ł	1	1	ł
1	i	Ì	Ì	magnetite is present. The unit does not react to HCL. No	20759	43.50	45.00	1.50	< 5	<0.005	1	1	1	1	ł
Ì	i		I	signifiant veining except from 36.75 to 37.00 a few quartz	20760	blank		1	< 5	< 0.005	I	1	i i	1	1
1	i		Ì	calcite stringers present at 75-80 deg to CA. & at 54-55 m.	20761	45.00	46.50	1.50	6	0.006	I	1	1	1	1
i.	i		i		1	1	Ì	1	1	1	1	1	1	I	Ì

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<i>From</i> 	<i>To</i> 	<i>Rock Type</i> 	Code 	Description Some local patchy epidote and a few epidote stringers. Overall estimate of 0.5%- 1% pyrite locally slightly more from 48-51 meters, 1-2%. Unit becomes more medium grained from 52.55 to lower contact. Note some leucoxenes noted in association with quartz carb stringers from 54-55m. Again this intervals a fairly competent unit with some minor slip planes generally at 15-20 deg to CA & some fractures generally at 30 and 60 deg to CA. Last 1.5 meter prior to lower contact a fair number of slip planes at 15 deg to CA.and a minor fault at 54.8 m at 10 deg to CA. Lower contact at 20 deg to CA.	Sample# 20762 20763 20764 20765 20766 20766 20767 20768 20769 20770	From 46.50 48.00 50.00 51.00 52.00 53.00 54.00 st221	To 48.00 49.00 50.00 51.00 52.00 53.00 54.00 55.00	Meters 1.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Au ppb 6 5 6 6 5 5 5 8 13 1140	Au g/t 0.006 0.005 0.006 0.006 0.005 0.005 0.005 0.008 0.013 1.14	Pt ppb	Ptg/t 	Pd ppb	Pd g/t	
 55.00 	 58.60 	Mafic Dyke	 6U 	Very fine grained dark grey mafic dyke with rafts of gabbroic wall rock within the dyke. Unit is very hard except where there is some patcy chlorite alteration. Fairly will minralized with about 5% pyrite disseminated throughout unit. Numerous randomly oriented microstringers of quartz calcite (2%) that react to HCL & mafic dyke itself reacts to HCL strongly. No magnetic response to mafic dyke or rafts of gabbro within dyke. Minor fault noted from 55.55 to 55.75; brittle fault with broken blocky rubble and ground contacts. A number of slip planes at 10-15 deg to CA and some fractures at 30 and 60 deg to CA in general. Lower contact is sharp and at 10 deg to CA.	20771 20772 20773 20774	55.00 56.00 57.00 58.00 	56.00 57.00 58.00 58.60	i 1.00 i 1.00 i 1.00 i 0.60 i i i i i i	6 < 5 5 6 	0.006 0.005 0.005 0.006					
58.60 	78.30 	Gabbro	 6G 	Grey to light grey section of gabbro, more plagioclase rich sections lighter grey and more ferro mag rich sections slightly darker grey. In general this unit is medium to coarse grained. Competent unit with some fractures at 70, 130, and 45 deg to CA in geneal. Again a number of slips noted at about 10-15 deg to CA. The unit is fairly hard but lcan be scratched with a knife with some effort; the unit ldoes not respond to HCL. Variable response to magnet from upper contact to about 72.20 and then a fairly coarse grained section at 72.20 to lower contact is very magnetic with substantial magnetite present. Some local patchy lepidote alteration and a few epidote stringers noted as lwell. Sparse pyrite; estimate 0f 0.5 to 1%. No significant quartz veining, a small stringer less than a cm wide noted lat 74.70 with some pyrite and minor leucoxene in wall rock. Lower contact at 88 deg to CA along a mud seam at start lof fault below	20775 20776 20777 20778 20779 20780 20780 20781 20782 20783 20784 20783 20784 20785 20786 20786 20786 20787 20788 20789 20790	1 58.60 1 60.00 1 61.50 1 63.00 2 64.50 3 66.00 1 67.50 1 69.00 1 70.50 1 72.00 2 73.50 1 76.50 1 78.00 1 std221	60.00 61.50 63.00 64.50 66.00 67.50 69.00 70.50 72.00 73.50 75.00 76.50 78.00 78.30	1.40 1.50 <t< td=""><td> 5 5 6 <5 8 <5 <5 <5 5 6 1140</td><td>0.005 0.005 0.006 <0.005</td> 0.008 <0.005</t<>	5 5 6 <5 8 <5 <5 <5 5 6 1140	0.005 0.005 0.006 <0.005					
78.30	79.15	Fault Zone 	FZ 	Small but distinctive brittle fault zone with sand seams/ gouge. Lower contact at 10 deg to CA.Finer grained gabbro host rock with a few qurtz calcite str at 88 deg to CA.	20791	78.30	79.15	f 0.85 f f	6	i 0.006 i i	[[] t	[]]		{ {]	

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From	lTo	Rock Type	Code	Description	Sample#	T	From	ł	То	ł	Meters	Au ppb	1	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	l
I	ļ				1			I.		L		ł	1			ł		1	ł
79.15	90.00	Gabbro	16G	This is a medium to coarse grained gabbro unit that is grey	20792		79.15	ł	80.00		0.85	i < 5		<0.005	k 1			1	
I	1		ł	in color and again made up of plagioclase, ferro mag	20793	.1	80.00	I	81.00	1	1.00	6		0.006	1			1	1
I	ł		I	minerals (mainly amphiboles) and some quartz. The unit	20794	1	81.00	I.	82.50	1	1.50	< 5	I -	<0.005				1	1
ł	ł		1	lis fairly hard and can be scratched with a knife with some	20795	I	82.50	1	83.15	1	0.65	7	1	0.007			. .	ł	1
I	1		1	leffort and unit has no HCL reaction. Unit is strongly	20796	I	83.15	1	83.45	I	0.30	< 5	L -	<0.005				1	1
1	1		1	magnetic and fair amount of magnetite observed in unit.	20797	1	83.45	1	84.00	Ì.	0.55	< 5	1	<0.005				1	1
Í	1		ł	No significant alteration observed, a few epidote stringers	20798	Ì	84.00	Ì	85.50	Ì	1.50	< 5	1	<0.005			- I	1	1
i	1		1	noted and a few rare guartz calcite stringers noted in	20799	i	85.50	i	87.00	i	1.50	10	i	0.01			l .	í.	i.
ł	i		i	last 30-40 cm of hole. Very competent unit with only a few	20800	i.	87.00	i	88.50	i	1.50	i < 5	i i	<0.005				i	i
i	i		i	slips at 10-15 deg to CA. and a few fracture generally at	20801	i.	88.50	i	90.00	i.	1.50	< 5	í.	<0.005				i	i
i	i		Ì	60 and 30 deg to CA. Trace of pyrite at best in this last	1	i.		i i		÷.			i					i	i
i	i		Î	linterval.	ł	i		i.		i		i	i i					1	i
i	i		i	IEOH: 90 meters.	i	i		i		i		i	i					1	i
i	i		í			i		÷		i		1	i					1	i
1	i		i	Core stored at Pelangio field office in Connaught Ontario	i	i		i		i			i				1	ł	i
1	1		i		i	I		÷		i		1	1		1 I		l	1	1
1	i		i	Down hole test corrected for declination was 127.2 Az	1	1		1		÷		1	1				2	1	÷.
1			1	and -46 dip at 60 m. Questionable down dip az data	1	ł		1		÷		1	ł		1	1	1	1	
1	1		1	as hole drilled on old surface line at 130 az., 2.8 deg in 60 m	1	1		1		1		1 1	1		1	1	1	1	4
1	1		1		1			ł				•			ŀ		l	1	1
I	I		1	a lot, possible surface collar off slightly so will use. Dip okay.	I	1		1		1		1	1		1	I	1	1	1

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Prospect: Grenfell Si DDH: JS2008 Core Size: NQ CLAIM: L522691		Azimuth/Dip: 13 Tests: see last p EOH:113.85		Grid Location: Line 3W 150 N (Historical SGX Grid 2012) UTM:559992E 5336066N Nad 83 Zone 17 Date Started: Feb.1/20 Date Completed: Feb.3/20 Core S <u>torage:</u> Pelanglo Office Connaught Ontario	Drill Compa NPLH Drillir Logged By: K.Filo	ng	Completion of Logging: February 9 2020								
From	To	Rock Type	Code	 Description	Sample#	From	То	Meters	Auppb	Au g/t	Pt ppb	Ptg/t	Pd ppb	 Pdg/t	
0.00	2.40	Casing	CAS	Note, casing left in hole.			L	1	 				1		
2.40		Gabbro		At 2.40 to 19.15 m This unit is coarse grained and light grey in color. Like other [holes logged to date the gabbro is made up of plagioclase [feldspar, ferro mag minerals mainly amphiboles and some [quartz. The unit is fairly hard and can be scratched with a [knife with some effort & the unit has no HCL reaction. [The unit is locally mangnetic over meter or so intervals [(5% of interval at most) but where mangetic some [magnetite present. Very little in the way of quartz veining [Some minor quartz calcite microstringers from 9.5-11noted. [Some patchy epidote alteration noted particularily from 12 [to 15 m along with a few stringers of epidote throughout [interval. Very minor disseminated pyrite and rare pyrite [stringer, estimate of trace pyrite over entire interval. [Relatively competent interval. Small blocky broken fault [zone with some iron carbonate in fault from 13.8 to 14 m. [Lower contact at 5 deg to CA. Also, some minor slips at 15 [to 20 deg to CA and a number of fractures at 30 and 60 [deg to CA in general.] / At 19.15 to 36.00 [Continuation of gabbro unit as described in initial interval [above. This unit is a grey color and medium to coarse [grained. It is particularily coarse grained from 33-35.55 m. [Again unit is fairly hard but can be scratched with a knife [with some effort. The unit has no HCL reaction. Almost [non existant response to magnet overall except for strong [response from 28-30 m and 33-35.55 where mangnetite [noted. Pyrite content very low, again trace at best. Very [few quartz or quartz calcite stringers, some present from [35.55 to 36.00 where some leucoxene observed in a [section of unit that is more medium to finer grained. [Minor fault note from 25.00 to 25.40 at 5 deg to CA. [Again this unit is very competent with a few minor slip [planes at 15 deg to CA and fractures at 60 and 30 deg [to CA in general. A few epidote stingers noted as well.]	20802 20803 20804 20805 20806 20807 20807 20808 20809 20810 20810 20811 20812 20813 20814 20815 20816 20817 20816 20817 20818 20817 20818 20820 20820 20821 20822 20823 20824 20825 20825 20826 20827	2.40 3.00 4.50 9.00 10.50 12.00 blank 13.50 15.00 16.50 14.00 14.50 15.00 16.50 14.00 19.50 21.00 22.50 24.00 25.50 24.00 25.50 24.00 25.50 24.00 25.50 30.00 31.50 33.00 31.50	3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 16.50 18.00 19.50 21.00 22.50 24.00 25.50 27.00 28.50 30.00 31.50 33.00 34.50 35.55 36.00	0.60 1.50 <t< td=""><td>1 12 1 10 9 5 1 18 6 331 1 193 6 73 8 6 9 193 6 9 1 193 6 9 1 19 9 10 1 140 1 19 1 11 1 10 9 11 1 7 1 10 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </td><td>0.012 0.009 0.005 0.018 0.006 0.331 0.193 0.006 0.073 0.008 0.009 0.019 0.009 0.019 0.009 0.019 0.009 0.019 0.009 0.011 0.006 1.1.14</td><td></td><td></td><td></td><td></td></t<>	1 12 1 10 9 5 1 18 6 331 1 193 6 73 8 6 9 193 6 9 1 193 6 9 1 19 9 10 1 140 1 19 1 11 1 10 9 11 1 7 1 10 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.012 0.009 0.005 0.018 0.006 0.331 0.193 0.006 0.073 0.008 0.009 0.019 0.009 0.019 0.009 0.019 0.009 0.019 0.009 0.011 0.006 1.1.14					

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From	n To	Rock Type	Code	Description	Sample#	From	To	Meters	Au ppb	Aug/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	
2.40	I [68.15	l IGabbro	16G	At 36.00 to 53.00	20828	36.00	37.50	1.50	47	0.047	1		1		
i	i i	(continued)	i	Continution of medium to coarse grained, grey gabbro unit	20829	37.50	39.00	1.50	7	0.007	İ		1.	ĺ	i i
i	1		i	with mineralogical make up similar to initial descritption in	20830	blank		i	< 5	<0.005	l	ĺ	i	1	i i
i	1	t	í	this hole described above. No significant veining; quartz	20831	39.00	40.50	1.50	7	0.007	ł		Ì	1	i i
í	í	1	1	for guartz calcite observed. Some epidote stringers noted	20832	40.50	42.00	1.50	< 5	<0.005	1		ļ	1	í
i			, t	and some local patchy epidote alteration in the latter few	20833	42.00	43.50	1.50	< 5	<0.005			1	1	ł
	1	1	1	Imeters of this interval in particular. The unit does not react	20834	43.50	45.00	1.50	< 5	<0.005	1		l ļ	ĺ	i
1	1	l l	1	to HCL and is hard but can be scratched with a knife with	20835	45.00	46.50	1.50	<5	<0.005	1		1	1	i i
1	1	1	ł	some effort. For the most part this particular interval is	20835	46.50	48.00	1.50	< 5	<0.005	1		s 	1	i
1	1		1	weakly to strongly magnetic with some minor sections that	20836	48.00	49.50	1.50	< 5	<0.005	1	ſ	1	1	1
1	1	5	ł		•	-	49.50 51.00	1.50	< 5		f 1		1	1	1
1	1	•	l	have no magnetic response. No major structural features	20838	49.50	•	• • • • •		<0.005	ſ		1	I	;
1	1		ł	noted. Unit has a few typical minor slips at about 10-15 deg	20839	51.00	52.50	1.50	5	0.005	1		1	1	1
Į.	ł	1	ł	to CA and again some fractures at 30-35 deg to CA and	20840	std221		1	1120	1.12	1		1	1	1
			1	60 deg to CA in general. Overall a very competent unit.	20841	52.50	54.00	1.50	24	0.024	1		1	1	ļ
I	1		ł	Sparse pyrite content around trace to 0.5% maximum.	20842	54.00	55.50	1.50	< 5	<0.005	1		1	1	[
1	ł		1		20843	55.50	57.00	1.50	< 5	<0.005	1			1	1
1	1	ł	ł	At 53.00 to 68.15	20844	57.00	58.50	1.50	< 5	<0.005	ł		1]	!
1	ļ	1	I	Continuation of gabbro unit again, minrealogically as per	20845	58.50	60.00	1.50	< 5	<0.005			ļ		
ł	1		1	description in initial interval above. This particular interval	20846	60.00	61.50	1.50	< 5	<0.005	l				ł
	1		ł	is medium to coarse grained for the most part with the	20847	61.50	63.00	1.50	5	0.005	1		1	1	ł
	1	1	1	exception of an interval from 63.70-64.80 where unit is	20848	63.00	63.70	0.70	7	0.007	l		1	[I
1	1	1	1	more fine to medium graind and a number of quartz calcite	20849	63.70	64.80	1.10	12	0.012	1	ł	1	ł	
1	1	1	ł	stringers present in this section at 50 deg to CA assoc.	20850	64.80	66.00	1.20	14	0.014	ł	l	I		1
	Í	1	1	with some leucoxenes. This short interval and a section of	20851	66.00	67.00	1.00	6	0.006	1	Į.	1	ļ	I.
1	i	1	Ì	Jabout 0.5 meters prior to lower contact are basically the	20852	67.00	67.50	0.50	25	0.025	ĺ		1	ł	1
i	i	1	İ	Ionly areas within this interval with some guartz/guartz	20853	67.50	68.15	0.65	12	0.012	İ		Ì	1	Ì.
i	i	1	i	calcite stringers. The unit contains a few epidote stringers	ł	i		1	i		}		i	İ	i i
i	i	1	l	throughout it as well. The unit is hard but can be scratched	ļ	i	İ	i	i	1	1		i	ŀ	i i
i	1	1	i	with a knife with some effort. There is generally a weak	i	i	1	1	i	1		1	i	i	i
i	ì	1	1	to moderate magnetic response throughout unit with some	ì	i	ł	1	1	ł	ì	,	l	•	i
i	1	1	1	Ishorter intervals with no response (minor). Again this unit	1	1		1	1	i	1		1	, 	i i
Ì	1	1	1	lis a grey color. Some rare patches of epidote alteration	1	1		1	1	1	1		i	1	i i
1	1	1		present locally over a few cm noted. Pyrite mineralization	1	1	1			8 1	1		ł	1	1
1	t	1	ł	trace to 1/2% overall with the exception of last 0.5 m	1		1	1	1	1	1	1	1	1	1
1	1	1	1	above contact, this last 0.5 m has about 5% plus pyrite.	1	1	1	1	1	1	1	1	1	4 1	1
1	I	1	1	Very competent interval with a few minor slips between	1	1	ł	1	1 T	1	1	1	1	1	-
1	ł	1 .	ļ		ł	ł	i 1	1	1	1	1		1		ļ
1	l I		ļ	59.5 and 61.5 at 10-15 deg to CA. A few fractures noted	1		1			1		ļ	1	1	ł
1		1	I	and these are generally at 60 deg to CA. Lower contact		1	1		1	1	1	1	1		1
1		1	I	along a distinct narrow fault at 68.15 at 80 deg to CA with	I	i	ļ	1	!	1	ļ	1	!	1	!
1	1	1	I	some gouge on fault plane.	I	ļ.	ļ		1	1	ļ		1	!	i.
			l.				1		1	1	1	1	1	1	ļ
68.1	5 75.80	↓Mafic Dyke	16U	Light grey colored very fine grained mafic dyke. The unit is	20854	68.15	69.00	0.85	9	0.009	1	1	1	1	Į.
ł	ł		l	of moderate hardness and totally non magnetic and has a	20855	69.00	70.00	1.00	7	0.007	1	1	1	ł	í
ł	i	1	ł	weak reaction to HCL. Fairly significant amouunt of	20856	70.00	71.00	1.00	9	0.009	1	l	1		1
ł	i	I	ł	randomly oriented quartz calcite microstingers making up	1]	I	1	1	1	1	ł	1	I	1
1	I	1	ł		1	1		i	1	1	I		1	l	1

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From 	To 	<i>Rock Tvpe</i> 	Code	IDescription [about 4-5% of unit overall and quartz veins noted from [72.05-72.30 with contacts at 20 deg to CA and smaller vein [from 73.90-74.05 m with upper contact at 20 deg to CA and llower contact at 30 deg to CA. Some chalcopyrite noted lin smaller vein. This entire interval well mineralized with Idisseminated pyrite, estimate of 7% plus but sections over [short intervals with 10% pyrite. Small blocky broken fault [zone noted from 70.83 to 70.95, upper contact 5 deg to CA. [A number of slips noted at 10 deg to CA in general and [fractures noted as well at 30-40 deg to CA in general, [overall fairly competent interval. Unit has some rafts of [gabbroic material within the dyke from 72.30 to 73.40 [Lower contact at 30 deg to CA. Lower contact along a [slip plane.]	Sample# 20857 20858 20859 20860 20861 20862 20863 20864 	From 71.00 71.90 72.30 blank 73.40 73.90 74.40 75.00	To 71.90 72.30 73.40 73.90 74.40 75.00 75.80 	Meters 0.90 0.40 1.10 0.50 0.50 0.60 0.80	Au ppb 10 16 6 5 12 19 204 9 	Au g/t 0.01 0.016 0.006 0.005 0.012 0.019 0.204 0.009	Pt ppb	Pt g/t Pt g/t Pt g/t Pt g/t Pt g/	Pd ppb 	Pd g/t	
	 113.85 	Gabbro	6G	Image: Image:	20865 20866 20867 20868 20869 20870 20870 20871 20872 20873 20874 20875 20876	75.80 76.80 78.00 79.50 81.00 std221 82.50 83.50 83.90 84.20 85.00 86.00 1 <	76.80 78.00 79.50 81.00 82.50 83.50 83.90 84.20 85.00 86.00 87.00 1	1.00 1.20 1.50 1.50 1.50 1.50 1.50 1.00 0.40 0.30 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	8 7 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5	0.008 0.007 <0.005					
				At 86.75 to 113.85 Again continuation of gabbro unit with mineralogical make up as described in initial interval in this hole. The unit varies in color from light grey to darker grey depending on the amount of plagioclase feldspar versus ferro mag mineral content. The unit is medium to coarse grained and has no	20877 20878 20879 20880	 87.00 87.70 88.50 blank 	 87.70 88.50 89.24 	 0.70 0.80 0.74 	6 6 < 5 < 5 	0.006 0.006 <0.005 <0.005 	 			 	

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From	To	Rock Type	Code	Description	Sample#	From	I	То	Meters	Au ppb	Au g/t	Pt ppb	Pt g/t	Pd ppb	Pd g/t	I
ł	I	1	I	HCL reaction. Some patchy epidote alteration, paricularily	20881	89.24		90.00	0.76	< 5	< 0.005	Į		I	1	I
ł	1	1	1	Inoticeable in first few meters of this interval, some epidote	20882	90.00	ł	91.50	1.50	< 5	<0.005	I		l	1	1
l I	1		1	stringers locally throughout this interval but pretty minor	20883	91.50	1	93.00	1.50	< 5	<0.005			l	l ·	1
1	1	1	1	for the most part. No significant quartz or quartz calicite	20884	93.00	ł	94.50	1.50	< 5	<0.005	1		1	1	1
Í	1	Ì	Í	veining or stringers observed; one small 2-3 cm veinlet	20885	94.50	- I	96.00	1.50	< 5	<0.005	1		1	1	1
- i	1		Í.	noted at 87.47-87.50 with some leucoxene noted on	20886	96.00	1	97.50	1.50	< 5	<0.005	I		1	ł	1
i	i	Ì	i	salvage. Unit is of moderate hardness & can be scratched	20887	97.50	- İ	99.00	1.50	7	0.007	1		l	1	ł
- i	İ	1	i	with knife with some effort. Over all fairly strongly	20888	99.00	- i	100.50	1.50	< 5	<0.005	ł		1	1	1
i	ł		i	magnetic interval, some magnetite noted in coarser	20889	100.50		102.00	1.50	< 5	<0.005	1		1	ļ	Ì
i	i	İ	i	grained sections. Noted that more plagioclase rich section	20890	std221	i i		i	1120	1.12	1		1	1	i
i	i	ł	i	of this interval less magnetic to non magnetic such as	20891	102.00	i	103.50	1.50	6	0.006	i		Ì	1	i
i	i	i i	i	section from 95-98 and 110-113 m. Pyrite content minimal	20892	103.50		105.00	1.50	5	0.005	i		i	1	i
i	i		i	estimate of trace pyrite. A small very fine grained mafic	20893	1 105.00		106.50	1.50	5	0.005	i		l	i	i
i	i		i	dyke that looks simialar in composition to the larger dyke	20894	106.50) i	108.00	1.50	< 5	<0.005	1		1	1	i
	ł		i	described above is noted from 88.50 to 89.24. The dyke	20895	108.00	-	109.50	1.50	< 5	<0.005			1	1	i
	i		i	has an upper contact along a slip plane oriented at 10 deg	20896	109.50	-	111.00	1.50	5	0.005	i		1	i i	i
1	i		i	to CA and lower contact at 30 deg to CA. The dyke has 1-2	20897	111.00	-	112.50	1.50	< 5	<0.005	i		i	i	i
j	1		i	per cent pyrite and no veining. It is non magnetic and has	20898	112.50	•	113.85	1.35	12	0.012	i		1	i	i –
ļ	i		1	a very weak HCL reaction and it is of moderate hardness.	1	1	í		1	, . <u> </u>	1	1		1	i	í
1	i		i	Overall this gabbro is a very competent unit with a number of	i	i	i		i	1	ł	1		1	1	i
1	1			high angle slips at 10-15 deg to CA; a very minor small	ľ	1	i		ļ	1	l	Í		i	1	i
1	i		i	brittle fault noted at 98.50 to 98.80. Again a number of	1	i	i		1	1	l	i		i	i	i
í	1		1	jfractures present generally at 60 and 30 deg to CA.	1	1	i		1	• 	I	1		1	1	i i
1	1	I I	1	1EOH 113.85	i	ì	i		1	1	l I	1		1	1	i i
1	i i		1			i	i		i	1	1	1		•	1	1
1	1		1	Core stored at Pelangio Exploration field office in	1	1	i		1	1	1	1		1	1	1
1			1	Connaught Ontario.		i	i		i	1	1	1		i	i	i
1	1	r I	1	ł	1	1			1	1	i	1		1	1	i
ł	1		1	Test at 60 had Az of 138.6, corrected Az of 127.6 m and	1	1	i		i i	1	1	1	1	1	1	1
1	ł		1	a dip of -56.2 degrees. Questionable az as hole drilled along) I	1	1		1	1		ł	l	1	1	
4 7	1		1	surface grid line at 130, down hole magnetic problem? As	I J	1	;		1	1	1	1	1		1	1
1	1		1	2.4 deg in 60 m a lot but surface collar likely off slightly and	1		1		1	1	ł	1		1	1	{
1	1		1	ithus will use.	1	1			1	1	1 1	1	1	1	1	1
ł	ł	1	I	นานร พทานระ.	ł	I	I		1	1	I	1	1	1	I	1

DDH: J Core S	ect: Shea Vein JS2009 Size: NQ I: L512579	Azimuth/Dip: 47/- Tests: see last pa EOH:81.20		Grid Location: N/A See UTM Coordinates UTM:560160E 5336026N Nad 83 Zone 17 Date Drilled: Sept.15 to Sept.17 2020 Date Logged: Oct.7 to Oct 8 2020	Drill Compa NPLH Drilling Logged by: K. Filo			Core Storag	je: Pelangio F	ield Office, (jonnaught O	ntario.		
From 0.00	 <i>To</i> 0.80	Rock Type Casing	I Code ICAS	l <i>Description</i> Note, casing left in hole.	Sample#	From	То	Meters	Au ppb	Aug/t	Pt ppb	Ptg/t	Pd ppb	Polg/t
0.80	 50.00	Gabbro	 6G	l lat 0.80 to 25.00 m					1	1		ł	1	
	1			This is a medium grained light grey colored unit, typical of	26158	I 0.80 I	2.00	1.20	9	1	< 5	i	< 5	i i
	i		i	gabbro unit found on property. It is made up of ferro mag	26159	2.00	3.00	1.00	5	1	< 5	l	< 5	i i
	Ì		1	minerals (mainly amphiboles), plagioclase and some quartz	26160	blank		1	3	l	< 5	l	< 5	Î Î
	Ì		1	and minor biotite mica. Numerous fractures and slip planes	26161	3.00	4.50	1.50	398	l	< 5	1	< 5	I I
	ł		1	for first 12 meters or so. Fractures tend to be at 30 and 60	26162	4.50	6.00	1.50	10	l	< 5	1	< 5	
	i		1	deg to CA in general in first 12 m and slips at 15-20 deg	26163	6.00	7.50	1.50	6	l	< 5	ł	< 5	
	Í		1	Ito CA in general. Beyond 12 m more competent but similar	26164	7.50	9.00	1.50	21]	< 5	I	< 5	1
	1		1.1	orientation to slips and fractures more like 45 deg to CA	26165	9.00	10.50	1.50	5	1	< 5	ł	< 5	
	1		1	in general. Short but significant fault noted fom 9.0 to 10.3,	26166	10.50	12.00	1.50	7	t	< 5	I	< 5	1 - 1
	1		1	upper contact 4-5 deg to CA and this fault is again a brittle	26167	12.00	13.50	1.50	4	i	< 5	1	< 5	I I
			1	fault as per numerous faults on this property. The fault	26168	13.50	15.00	1.50	70		< 5	1	< 5	I I
	1		1	zone is mainly broken blocky core with some ground rubble.	26169	15.00	16.50	1.50	15		< 5	[< 5	1 I
	1		1	Lower contact ground. The gabbro unit has no HCL reaction	26170	16.50	18.00	1.50	< 2	I	< 5		< 5	1
			1	and is very hard, it can be scratched with effort. Unit is	26171	18.00	19.50	1.50	2		< 5	1	< 5	1
	1		ł	not altered but some weak bleaching from 7.5 to 9.0 m, a	26172	19.50	21.00	1.50	7	1	< 5		< 5	I f
	1		1	minor weak HCL reaction here (an exception). A few minor	26173	21.00	22.50	1.50	24	1	< 5		< 5	1
				quartz stingers and a veinlet here at 7.5 to 9 m., not significant. Outside of this area minimal veining noted.	26174 	22.50	24.00	1.50 	30		< 5	1	< 5	
			1	Locally some minor patches of epidote and a few stringers of epidote. There is some dissemianted pyrite and esteimate of 1/2 to 1% at best.	 			 	 	 			 	
	I		ł		1			1		1	1	I		! !
	1		l	at 25.00 to 50.00	26175	24.00	25.50	1.50	13	Į	< 5	1	< 5	
				This is a contiunation of gabbro unit. This particular interval	i 26176	25.50	27.00	1.50	4	1	< 5	1	< 5	
	l		1	lis a very light grey color on fresh surface as it seems to	26177	27.00	28.50	1.50	< 2	1	< 5	1	< 5	1 1
	ļ		1	have a high percentage of feldspar versus mafic minerals.	26178	28.50	30.00	1.50	3	1	< 5	1	< 5	!!!
	!		1	The unit is still medium grained, and has no HCI reaction	26179	30.00	31.50	1.50	37	1	< 5	1	< 5	
			1	The unit weakly magnetic at very start of interval and then	26180	stdor221		1	1090	1	13	!	14	
	!		l l	becomes strongly magnetic through out this section as	26181	31.50	33.00	1.50	4	1	< 5	1	< 5	1
	1			a result of magnetite. Unit is still very hard and	26182	33.00	34.50	1.50	3		< 5	1	< 5	1 1
	1		l.	difficult to scratch with scribe. Extremely rare quartz str	26183	34.50	36.00	1.50	8	!	< 5	1	< 5	ļ ļ
	1 .		ļ	or two, not significant. Some epidote stringers noted and	26184	36.00	37.50	1.50	37	1	< 6	1	< 5	ļ ļ
	1		1	occassional patch of epidote alteration. Outside of local	26185	37.50	39.00	1.50	< 2	1	< 6	ļ	< 5	
	1			patchy epidote unit is not altered. Unit has a number of	26186	39.00	40.50	1.50	< 2	1	< 5	1	< 5	! !
	1			small brittle faults over short intervals at 25-25.75 oriented	26187	40.50	42.00	1.50	3	1	< 5	1	< 5	1
	1		1	subparallel to CA.; 29.80-30.10, oriented subparallel to CA	26188	42.00	43.00	1.00	10	1	< 5	1	< 5	1

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From	To	Rock Type	Code	Description Also some other distinct slip planes and minor slip planes	<i>Sample#</i> 26189	<i>From</i> 43.00	<i>T</i> o 44.00	<i>Meters</i> 1.00	Auppb < 2	Aug/t	Pt ppb < 5	Ptg/t	Pclpppb <5	Pdg/t	
1			I	subparallel to CA and at 15 deg to CA respectively. Again	26109	blank	1 44.00	1 1.00	<2	1	< 5	1	<5		
1	1		1	some fractures noted at 60 and 45 deg to CA respectively. Again	26190	44.00	45.00	1.00	< 2	1	< 5	1	< 5	1 I	
1	1			This unit is a competent unit overall. Estimate of 1%	26192	44.00	46.00	1.00		1	< 5	1	< 5		
1	1		1	•	• -• · · -	-	40.00		<2	1			1 < 5	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
1	1	1	1	Jpyrite noted in disseminated form overall. Locally pyrite 1 to	26193	46.00		1.00	: -	4 1	< 5	1	: *		
	1	1		2%. Lower contact with vein at 50 deg to core axis and	26194	47.00	48.00	1.00	4	1	< 5		< 5		
	1			associated with a slip plane	26195	48.00	49.00	1 1.00	< 2	1	< 5	1	< 5		
	1		I		26196	49.00	50.00	1.00	5	1	< 5	1	< 5		
150.00	150.30	Quartz Vein	Q v	Basically a grey white quartz in the target area of the	1			1	1	1	1	1		1 I	
		1	ł	Shea Vein. No mineralization noted in vein. Lower contact	26197	50.00	50.30	0.30	5	1	< 5	1	< 5	1 1	
	1	1		of vein at 50 deg to CA and associated with a slip plane.	1	1	1	1	1	1	1	1	1		
50.30	54.20	I IGabbro	l 6G	ا This is a medium grained, light grey gabbro very similar to	26198	50.30	51.00	0.70	28	1	< 5	1	< 5		
- I	i	Ì	i	That described in the initial part of this hole. This particular	26199	51.00	52.00	1.00	617	I	< 5	1	< 5	1 1	
i	i	i	i	linterval has fairly substantial leucoxene associated with it.	26200	52.00	53.00	1.00	13	Ì	< 5	Ì	< 5		
i	i	i	i	Some minor guartz clots and veins running sub parallel to	26201	53.00	53.50	0.50	164	i	< 5	1	< 5	I I	
i		1	i	CA such as at 53.5 to 53.80; this particular vein well	26202	53.50	54.20	0.70	87	1	< 5	i	< 5	i i	
1	-	1	i i	imineralized with pyrite. The unit is very hard to scratch and	1	1	}		1	1		i			
	1	i i	ł	has a moderate HCL reaction. Estimated pyrite content of	1	i	1	1	1	1	1	1	ł	1 I	
				0.5 to 1% at best. Competent unit with some fractures at 60	1	1	1	1	1	1	i	i	ł	, , , , , , , , , , , , , , , , , , ,	
1	1	1		deg to CA and rare minor slips at 15 deg to CA. Lower	1		ł	1		1	1	1	1	· ·	
l	r I	1		contact with vein at 30 deg to CA.		1	1	i İ	1	}			1		
1	Ì	Ì	İ		Ì	ł	I	1	1	1	I	1	ł		
54.20	54.60	[Quartz Vein	Qv	White quartz vein with some leucoxene bearing wall rock	26203	54.20	54.60	0.40	2330	1	< 5	1	< 5	1 1	
ł	1	I	1	fragments and some local becclation & some minor K-spar	1	1	1	ł	ł	1	1	ł	ł	1 I	
I	1	l	1	veinlets, no signifcant mineralization noted. Little information	I	1	ł	1	1	1	1	1	l	I I	
I	1	i	1	Ion Shea vein target, section from 50.00 to 52.60 including this	1	1	ł	1	1	1	1	1	1	1 1	
I	1	1	1	vein thought to be target area from up dip projection from	1	1	1	1	1	1	ł	l	1		
I	ł		I	level to surface pit.	l	1	I	ļ	l	1	1	1	1	ļ [
(54.60	l (81.20	I ∤Gabbro	 6G	 This is a very light grey medium grained unit. It appears	26204	1 54.60	55.00	0.40	1 16		< 5	1	< 5		
104.00	101.20		100	Ito have a substantial amount of feldspar giving it a lighter	26205	55.00	56.00	1.00	1790	1	< 5		<5		
	1		1	color. Overall a strongly magnetic interval with some	26205	55.00	57.00	1.00	5	1	< 5		<5		
1			1	Imagnetite present. Localized non magnetic sections	•	57.00	57.00	1.00		1		1			
	1		ļ		26207	57.00 58.00	•			1	< 5	1	< 5		
!			1	associated with some patchy epidote alteration over short	26208		59.00	1.00	75	1	< 5	1	< 5		
I			1	intervals. Some tiny microstingers & veinlets <1/2 cm of	26209	59.00	60.00	1.00	160	1	< 5	!	< 5		
l	1		1	quartz calcite and rarely quartz alone generally at 60 deg	26210	stdor221	1		1060	1	11	1	14		
I				to CA generally parallel to fracture set in this unit. This is	26211	60.00	61.00	1.00	5	1	< 5	1	< 5	1 1	
	ł		1 .	a competent unit with a few minor slip planes as well	26212	61.00	62.00	1.00	91	1	< 5	1	< 5		
	ł	1		generally at 15 deg to CA. Unit is not altered, on occasion	26213	62.00	63.00	1.00	16	1	< 5	I	< 5	I	
1	ł	ł	1	where there is some microveinlets of quartz calcite some	26214	63.00	64.00	1.00	20	I	< 5	I	< 5		
1	1	1	1	leucoxene sometimes present. It should be noted that	26215	64.00	65.00	1.00	9	1	< 5	1	< 5	1	
I	I	I	1	Ithese stringers make up only 2% of entire unit at best and	26216	65.00	66.00	1.00	9	1	< 5	1	< 5	1	
ł	ł	1	1	are localized. Some epidote stringers also present in unit	26217	66.00	67.00	1.00	í 71	1	í < 5	1	< 5	1 1	
1	I	1	1	but not significant. The unit is fairly hard and difficult to	26218	67.00	68.00	1.00	66	I	< 5	l	< 5	1 1	
ł	1	ł	ł	scratch with a knife. Pyrite content low at about 1/2-1%	26219	68.00	69.00	1.00	4	1	< 5	I	< 5	1 1	
	Ì	Ì	i	-	Ì	ł	1	1	1	1	1	1	1	1 1	
	•	-	•	•	-									-	

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From	To	Rock Type	Code	Description	ł	Sample#	T	From	ł	То	I	Meters	1	Au ppb	Au g/t	ł	Pt ppb	Pt g/t	Pd ppb	Pd g/t	1 1
1	1	1	I	generally in disseminated form but also rare stringer or		26220	ł	blank	1				1	< 2	1	1	< 5	_	< 5	1	
I	1	4	1	clot on a slip plane. Last few meters from 78 to 81.20	1	26221	1	69.00	1	70.00	1	1.00		8	1	1	< 5		< 5	1	
l	Ì	1	1	increase in pyrite content, estimate of 2-2.5% diss. and		26222	t	70.00	I.	71.00	Ì	1.00	1	23	I		< 5		< 5	1	
1	Ī	Ì	1	a few stringers of pyrite and rare fleck of chalcopyrite.	1	26223	ł	71.00	I	72.00	Ι	1.00	1	15	1	ł	< 5		< 5	1	1
J	j	1	J	JEOH 81.20	j	26224	1	72.00	J	73.00	I	1.00	1	11	1		< 5		< 5	1	1
1	i i	1	Í		1	26225		73.00	T	74.00	1	1.00	1	582	I		< 5		< 5	1	ł
ł	i	Ì	1	Tests	1	26226		74.00	1	75.00		1.00	1	30	i	l	< 5		< 5	1	
1	i	Í	1	Downhole test sheets misplaced by driller unavailable	1	26227		75.00	1	76.00	1	1.00	ł	59	1	1	< 5		< 5		I
I	Ī	i	i		1	26228	1	76.00	I	77.00	1	1.00	1	7	1	1	< 5		< 5	I	1
1	i i	Ì	Í	ł		26229	1	77.00	1	78.00	1	1.00	ł	5	I	1	< 5		< 5	1	1
1	Ì	i	l l		1	26230	1	78.00	ł	79.00	I.	1.00	1	4	1		< 5		< 5	1	1
I	i	i	ł		1	26231	ł	79.00	I	80.00	I.	1.00	1	5	1		< 5		i < 5	1	
I	i	-	I	1	ł	26232	ł	80.00	I	81.20	ł	1.20	- I -	5	1	1	< 5		< 5	1	I

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DDH: JS Grid:N/A	62010	Central Target Azimuth/Dip: 047 Tests: see last pa EOH:90		Grid Location: N/A See UTM Coordinates UTM:560249E 5336087N Nad 83 Zone 17 Date Drilled: Sept.17 to Sept 18 2020 Date Logged: Sept 30 2020 to Oct.2 2020	Drill Comp NPLH Drillir Logged by K. Filo	ng		Core Storag	ge: Pelangio I	Field Office, C	Connaught O	ntario.		
From 0.00	 To 2.92	Rock Type Casing	Code	l <i>Description</i> Note, casing left in hole.	 Sample# 	From	 To 	 Meters 	Aug/t	Au ppb	Pt ppb	Ptg/t	Pd ppb	Pdg/t
2.92 14.60	14.60	 Mafic Volcanic (Massive) 	2MS 	This is a fine grained to aphanitic massive mafic volcanic (that is grey in color. Moderate in hardness and can be (scrached with knife with moderate effort. Unit has no HCL (reaction and is non magnetic. The unit is unaltered. No (significant mineralization and rare quartz microstinger or (two noted. Reasonably competent unit with a few minor (slip planes noted at 10-30 deg to CA and a few fractures (at about 80 deg to CA. Note small coarse grained mafic (dyke noted from 11 to 11.25) (This is a brittle fault zone with upper contact ground and (blocky. The host rock of the fault zone is massive mafic (volcanic as described above. Fault zone comprised of (Numerous small slips at 10 deg to CA. and a number of (fracture planes. Locally a couple of small quartz stringers (with some hematite, these are less than 2cm.Lower contact [associated with slip at 10 deg to CA and some ground	26001 26002 26003 26004 26005 26006 26007 26008 26009 26009 26010 26010 26011 26011 26012 26013 26014 26015	2.92 4.00 5.00 6.00 7.50 9.00 10.50 12.00 13.50 13.50 blank 15.00 16.50 18.00 19.50 21.00	4.00 5.00 6.00 7.50 9.00 10.50 12.00 13.50 15.00 16.50 19.50 21.00 21.50	1.08 1.00 1.00 1.50 <t< td=""><td>0.006 0.008 0.011 0.011 0.012 0.018 0.009 0.008 0.006 0.006 0.006 0.006 0.001 0.006 0.009 0.009 0.009 0.009</td><td></td><td></td><td></td><td></td><td></td></t<>	0.006 0.008 0.011 0.011 0.012 0.018 0.009 0.008 0.006 0.006 0.006 0.006 0.001 0.006 0.009 0.009 0.009 0.009					
17.80 21.50	21.50	Mafic Volcanic (Massive) (Gabbro Dyke	2MS 	core. I Continuation of fine grained to aphanitic grey colored mafic Ivolcanic. Unit is of moderate hardness and non magnetic. I/Unit unaltered and contains no significant sulphide (trace). IA few very minor tiny microstingers of quartz, not Isignificant, unit has no HCL reaction. Relatively competent Iunit with a few slips at 10-15 deg to CA and some fractures Iat 70-80 deg to CA. Lower contact at 30 deg to CA. I This a darker grey colored medium go finer grained gabbro Idyke. Portions within the middle of the dyke are more med Igrained while margins somewhat finer. Some distinct Iplagioclase lathes evident within central portion of dyke.	26016 26017 26018	21.50 23.00 24.00	23.00 24.00 25.15	 1.50 1.00 1.15	0.007					
				Dyke also appears to contain some mafic volcanic rafts. Unit is non magnetic and has no HCL reaction, unaltered Junit. No significant sulphide minreralization and a few tiny (microstringers of quartz. Similar to volcanics above a Inumber of slips at 10-15 deg to CA and fractures at 80 [deg to CA in general. Moderate hardness.										

From 	<i>T</i> o 	Rock Type 	Code 	{ Description Last 1 to 1.5 meters of unit blocky and broken proximal to fault zone below but prior to this relatively competent unit. Lower contact at fault ground up.	Sample# 	From 	70 	Meters 	Aug/t	Auppb	Pt ppb 	Ptg/t	Pd ppb	Pd g/t	[{
25.15 	25.70 	Fault Zone	FZ 	Brittle block rubble in fault zone, ground up. Host rock of fault zone appears to be gabbro dyke as described above Lower contact of fault ground up.	26019 26020 26021 26022	i 25.15 i 26.00 i 27.00 i 28.00	26.00 27.00 28.00 29.00	i 0.85 i 1.00 i 1.00 i 1.00	0.01 0.009 0.023						
25.70	41.40 	Mafic Volcanic (Massive) 	2MS 	25.70 to 41.40 Initially a fine to aphanitic grey colored mafic volcanic with Isome sections which are slightly coaser more fine to med Igrained (28.5-30.5 m). Overall fairly competent unit except Ifor about 1 m beyond fault contact. A few slips present Iagain these are generally 10 deg to CA. and fractures Iat 40 and 75 deg to CA in general. Minor fault at 30.5 Iassociated with some quartz calcite stringers. Note, Ibeyond fault increase in micorstingers of quartz calcite at I70-80 deg to CA. Unit itself still has no HCL reaction and is Ibasically unaltered. Some localized wk magnetic response Inoted in unit. A few tiny micro veinlets of epidote also Inoted beyond 30.5 m. This unit has traces of disseminated Ipyrite locally, less than 1/2%. Moderate hardness, can be Iscratched with knife with a little effort. Increase in epidote Istringers in last few meters of this interval (33.50 to 41.40). IFrom 40.00 to 40.6 increase in pyrite 4-5% in this short Iscection mainly in a few stringrs. Also some hyaloclastite Inoted at 40.10 to 40.15.	26023 26024 26025 26026 26027 26028 26029 26030 26031 26033 26034 26035 26036	29.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 stdors221 36.00 37.00 38.00 39.00 40.00 41.00	30.00 31.00 32.00 33.00 34.00 35.00 36.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.008 0.008 0.005 0.005 0.026 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.0041 0.085 0.005 0.194 0.047						
41.40	46.10 1 1 1 1 1 1	Fault Zone	 FZ/2U 	Upper contact of fault zone along slip plane at 20 deg to [CA. This is a brittle blocky broken fault zone with significant Irubble and grinding of core. The unit hosting the fault is [still a mafic volcanic unit that appears to have some [angular breccia fragments associated with it. It is more [medium to fine grained and still has a grey color, non [magnetic, and has no HCL reaction. It is fairly soft perhaps [slightly chloritic. No significant veining or mineralization [noted within the fault zone. Lower contact along slip plane [with gouge and slickenslides, the slickenslides are at about 80 [deg to CA and the fault plane at about 5 deg to CA or [subparalle! to CA. Note, fault zone less blocky and broken [from 43.5 to lower contact of fault.]	26037 26038 26039 26040 	42.00 43.50 45.00 blank	43.50 45.00 46.00	1.50 1.50 1.00 	< 0.005 0.005 < 0.005 0.009 						
46.10 	56.00 	Pillowed Mafic/Mafic Hyaloclastite	2P/2H	This is a fine grained grey colored unit with a few distinct pillow salvages noted and an excellent example of hyaloclastite noted from 50.5-56 m. This unit is very hard and difficult to scratch with a knife, some silicification?	26041 26042 26043 26044	46.00 47.00 48.00 49.00	47.00 48.00 49.00 50.50	1.00 1.00 1.00 1.50	0.005 0.011 < 0.005 0.005 			 		, 	·

From 	To 	Rock Type 	Code 	Description The unit is non magnetic and no HCl reaction, very minor pyrite noted, estimate of trace. A few quartz calcite str noted (rare) & some minor epidote stringers as well. Some localized leucoxene noted within the section with hyaloclastite. Very competent unit with a few slip planes generally at 10-15 deg to CA and some fractures at 80 & 45 deg to CA. This end of this unit appears to be marked by an abrupt end to hyaloclastite unit at 20 deg to CA.	<i>Sample#</i> 26045 26046 26047 26048 26049 	<i>From</i> 50.50 51.00 52.50 54.00 55.00 	<i>To</i> 51.00 52.50 54.00 55.00 56.00 	Meters 0.50 1.50 1.50 1.00 1.00 1.00	Au g/t 0.005 0.005 < 0.005 < 0.005 < 0.005 < 0.005	Auppb 	Pt ppb	Ptg/t 	Pd ppb 	. Pd g/t 	
 56.00 	 60.80 	Mafic Volcanic 	20	This is a dark grey to grey colored mainly massive volcanic [with some very short intervals with some flow breccia. [The unit is extremely hard and near impossible to scratch [with a scribe, unit thought to be silcified. Unit is fine grained [and locally moderately magnetic. There is no HCL reaction. [No significant sulphides noted. A rare quartz calicte str noted, [not significant and a few epidote stringers noted as well. [Very competent unit with a few fractures at 45 and 80 deg [to CA.]	26050 26051 26052 26053 	56.00 57.00 58.50 60.00	57.00 58.50 60.00 60.80	1.00 1.50 1.50 0.80	0.006 0.005 0.007 0.042						
 60.80 	 78.00 	Gabbro (Feldspar Porphyritic) 	 6G,Por 	This is a medium grained grey colored gabbro unit. It is medium graind and primarily composed of ferro mag minerals, minor quartz and feldspar. The unit is unusual as lit has coarse grained feldspars giving it a porphyritic lappearance. In a number of instances the feldspars appear to coalesce, a localized glomophyric appearance. The unit is very competent looking, with no major structure noted, some minor slips at 10-15 deg to CA typical of that seen in this hole and a few fractures 40-45 deg to CA. The unit has a weak to non existant HCL reaction, and unit is non magntic. No significant veining noted, other than a few rare quartz calcite micro stringers and a few epidote str. This unit is not altered per say but some of the larger feldspar porphyroblasts are sericitic locally. Note, upper contact was chilled for a couple of meters and contains a few small rafts of volcanic, while lower contact more Igradational with phenocrysts becoming less and lactual contact with unit below ground. The unit is fairly hard and difficult to scratch with a scribe. Estimate of 1/2% Idisseminated pyrite overall. Note, becomes magnetic in last couple of meters and some magnetite noted.	26054 26055 26055 26057 26058 26059 26060 26061 26062 26063 26064 26065 26066 26066 26067 	60.80 62.00 63.00 64.50 66.00 67.50 5tdor221 69.00 70.50 72.00 73.50 75.00 76.00 77.00 1 1 1 1 1	62.00 63.00 64.50 66.00 70.50 70.50 73.50 75.00 76.00 77.00 78.00 1 1 1 1 1 1	1.20 1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.5	1 0.019 1 0.013 1 0.162 2 0.033 1 0.103 2 0.092 1 1.07 1 0.518 1 0.016 2 0.027 1 0.021 1 0.375 1 0.416 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
 78.00 	90.00 	Gabbro 	6G	I This gabbro unit typical of gabbro units described previously in early 2020 series holes (JS2004 to JS2008). The unit is generally grey color, however first couple of meters slightly bleached and a lighter grey color. The unit is made up of ferro mag minerals mainly amphiboles,	26068 26069 26070 26071 26072	78.00 79.00 blank 79.35 80.00	79.00 79.35 80.00 81.00	1.00 0.35 0.65 1.00	0.01 0.015 < 0.005 0.021 0.012						

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From	To	Rock Type	Code	Description	Sample#	From	To	Meters	Au g/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t	1
I	1	1	I	Ifeldspar and minor quartz. This section contains black	26073	l 81.00	82.50	1.50	0.147	1	I	l I	1	l I	ł
I	1	I	1	Imagnetite grains and is strongly magnetic. The unit	26074	82.50	84.00	1.50	0.573	l		l	1	1	1
1	1		Í	Ihas a number of skeletal leucoxenes present particularily	26075	l 84.00	l 85.00	1.00	0.071	1	I	1		ł	1
	i		İ	from 78-80 where the unit is bleached. The section from	26076	85.00	86.00	1.00	0.163	i	1	1	ł	1	1
Ì	i	j	i	78-80 meters a number of tiny quartz calcite stringers at	26077	86.00	87.00	1.00	0.019	J	1	ļ	1	1	ł
i	i	ł	i	60 deg to CA and a small smoky grey quartz vein from	26078	87.00	88.00	1.00	0.008	I	1	1	1	1	1
i	i		i	79.20 to 79.35 associated with a small slip on the lower	26079	88.00	89.00	1.00	0.008	1	1	1	1	1	1
i	1		i	contact at 20 deg to CA. There is a small brittle blocky	26080	89.00	90.00	1.00	0.009	1	Ì	1	1	1	1
i	1	1	i	broken fault zone from 79.6 to 80 m with numerous slip	1	1	1	1	i	1	1	l	1	1	1
i	I	1	i	planes. The section from 78-80 is thought to be the Central	i	Ì	i	i	i	l	1	l	l	1	1
i	ľ		i	Zone target area from historical section and plan data.	i	i	i	Ì	i		1	1	1	i	i –
i	i	1	i	Outside of the fault just described unit is fairly competetent	i	i	i	i	i	i	1		1	Ì	i –
i	ł	i I	i	with a few slips again at 10-15 deg to CA in general and	i	i	i	i	i	i	i	1	İ	İ	i
1	1	1	i	some fractures at 60 and 45 deg to CA in general. A few	i	i	i	i	i	i	i	i	i	i	i
i	1	1	i	lepidote stringers also noted in unit. Bleached section reacts	1	i	ł	ł	i	i	i	i	i	İ	i
i	ľ	l	i	Ito HCL but outside of this no reaction. The unit is fairly hard	1	i	i	1	i	i	1	i	1	i	i
i	ł		i	and difficult to scratch. Overall estimate of 1% diss.	1	i	1	I I	i	i	1	ł	1	i	i
	ł	1	ł	(pyrite in unit, perhaps 1-2% in last couple of meters.	1	;	1	i i	;	;	ì	1		į	i i
	1	1			I I	1		1		1	1	1	1	ł	i
1	1	ł		IEOH 90.00 M.		1	1		i i	1	I	1	1	1	i i
1	ł	1			1	1	1		1	1	1	ł	1	i	1
	1	1		Tests:		1		1	1	1	1	1	1	1	
	1	1	ł	51m Uncorrected Az: 54.2 deg Corrected Az 42.7 deg	1	1	1	i k	1	r I	1	1	4 1	1	1
1	1		1	Dip -62.7 deg	1	1	1	1	1	1	1	1	1	1	1
	1		ł		1		-		1	1	1	1	1	1	1
	1	1	1	90m Uncorrected Az 56.7 deg Corrected Az 45.2 deg	1		1		1	1	1	1	1	1	1
	4 t	T	1	Dip -62.6	1	1	1		1	1	1	1	1	1	
I	1	l	1	1 1 1 1 1 1 1 1 1 1		1	1	1	1	1	1	1	1	1	1
ł	f I	1	1	l ICommont: Ouestionable az en 51 m test, neer test due te		I	1	ł	1	1	1	1	1	1	1
-	1		1	Comment: Questionable az on 51 m test, poor test due to		[E .	l T	1	1	1	1	l	1	1
	1	1	1	possible magnetics considering test at 90 m almost perfect	l	ļ	I c	1	1	1	1	l ,	1	1	ł.
I	1	I	ł	(Maybe best to ingore az on 51 m test.	1	I	I	I	l I	ł	1	1	ļ	1	1

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DDH: JS Grid:N//		haft Area Azimuth/Dip: 13 Tests: see last p EOH:90 M.		Grid Location: N/A See UTM Coordinates UTM:560326E 5336231N Nad 83 Zone 17 Date Drilled Sept 21 to Sept 22 2020 Date Logged: Oct. 5 2020 to Oct.6 2020	Drill Company NPLH Drilling Logged by: K. Filo								,		
<i>From</i> 0.00	<i>T</i> o 1.70	<i>Rock Type</i> Casing	Code CAS	l Description Note, casing left in hole and a series of overburden boulders in box above 1.7 which were not sampled.	Sample#	From 	То	Meters	 Aug/t 	 Au ppb 	Pt ppb	Pt g/t	Pd ppb 	Pd g/t	
1.70	41.20 	Gabbro 	6G 	Image: Image:	26081 26082 26083 26084 26085 26086 26087 26088 26087 26088 26089 26090 26090 26091 26092 26093 26093 26094 26095 10st core 26096 26097 26098	1.70 3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 14.50 15.00 16.50 16.50 16.50 18.00 21.00 22.40 23.75 25.00 26.00	3.00 4.50 6.00 7.50 9.00 10.50 12.00 13.50 15.00 16.50 18.00 19.50 21.00 22.40 23.75 25.00 26.00 27.00	1 1.30 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.25 1 1.00 1 1.00	<pre> < 0.005 < 0.005 0.009 < 0.005 0.054 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.007 0.008 0.007 0.008 0.007 0.005 0.005 0.005 0.011 </pre>						
				at 27.65 to 41.20 This secion is a continuation of the gabbro unit just described above. Similarily it is meduium grained, grey in color and has no HCL reaction. Still strongly magnetic to about 34.5 meters, this initial portion of this interval has magnetite present. Beyond 34.5 basically non magnetic. The unit still has about 2-3% pyrite generally disseminated but occassional stringer noted as well. Rare quartz carb for quartz noted in interval. A few epidote stringers noted and no significant quartz or quartz carb stringers or veins. Still a very competent unit with fractures at 45 and 70 deg to CA in general and slips at 15 deg to CA generlly (rare). No alteration noted, unit is still very hard and difficult to scratch. Towards lower contact unit becomes finer grained, chill margin. Lower contact at 30 deg to CA.	26099 26100 26101 26102 26103 26104 26105 26106 26107 26108 26109	27.00 blank 28.50 30.00 31.50 33.00 34.50 36.00 37.50 39.00 40.00 	28.50 30.00 31.50 33.00 34.50 36.00 37.50 39.00 40.00 41.20	150 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.20 1.20	0.011 0.007 0.01 0.369 0.547 0.024 0.065 0.925 0.085 0.094 0.048						

<i>From</i> 41.20 	To 48.60 	<i>Rock Type</i> Massive Mafic Volcanic 	Code 2MS 	[Description This is a very fine grained light grey colored mafic volcanic. The unit is extremely hard and possibley silicified. This is la reasonably competent unit but last couple of meters lare somewhat broken up proximal to major fault. Slip planes lin unit again at 15 deg to CA in general and fractures lin general at 40 and 60 deg to CA. Unit has no HCL reaction land it is non magnetic. One small quartz vein noted at 41.27 Ito 41.32 at 30 deg to CA with small 1-2 cm porphyritic lsalvage on vein. Note, small gabbroic dyke present from l42.36 to 43 meters. At 46.5 slighly softer and a little chloritic lproximal to fault. Overall this unit has some minor pyrite, lestimate of 1% max and generally localized.	Sample# 26110 26111 26112 26113 26113 26114 26115 26116	From 41.20 41.50 42.36 43.00 44.00 45.00 46.50	To 41.50 42.36 43.00 44.00 45.00 46.50 48.00	Meters 0.30 0.86 0.64 1.00 1.00 1.50 <	Au g/t 0.686 0.059 0.829 0.392 0.026 0.007 4.91	Auppb 	Pt ppb	Pt g/t	Pd ppb 	Pd g/t	
48.60 	 53.20 	Fault Zone (Major) 	 FZ 	Start of fault marked by slip plane at 20 deg to CA. This is la major fault zone; typical of this project the fault is a lbrittle blocky broken zone with multiple slip planes and lsignificant ground rubble making up the fault zone. The host lrock of the fault is similar in compositon to mafic described labove. The first meter or two softer and chlortic and then lvery hard rock typical of that at start of mafic unit above. IA small feldspar porphyritic dyke from 48.9-49.35 noted with lsome minor quartz, contact badly ground up.Lower contact 130 deg to CA on slip. A few quartz calcite stringers noted in lfault, not significant and no significant sulphides noted.	26117 26118 26119 26120 26121 26121 26122	48.00 48.90 49.40 stdor221 51.00 52.50	48.90 49.40 51.00 52.50 53.20	1 0.90 1 0.50 1 1.60 1 1.50 1 0.70 1 1 1 1	0.178 0.221 0.014 1.02 0.094 0.053						
53.20	56.95 	Mafic Dyke		This is a fine grained dark grey to black mafic dyke. The ldyke has a speckled appearance as some feldspar noted lin unit comprised predominatly of mafic minerals. The unit is non magnetic, has no HCL reaction and is lfairly hard. Unit has about 2-3% disseminated pyrite. No lveining of significance observed but a few small rafts of Imafic volcanic noted within the dyke. Unit does not appear lattered, and no major stucture noted in dyke, occassional fracture noted at 40 deg to CA; overall a competent unit. Lower contact at 50 deg to CA.	26123 26124 26125	53.20 54.00 55.50	54.00 55.50 56.95	0.80 1.50 1.45 	0.033 0.029 0.018						
 56.95 	65.90	Mafic Volcanic 	 2U 	This is a fine grained greyish green colored mafic volcanic with a few small dykes generally a few cm to less than 0.5 [m.; compositionally similar to mafic dyke described [immediately above. The unit is non magnetic, very hard and [has no HCL reaction. The unit due to its hardness may be [silicified. A few microstirngers of quartz noted from 60-61 [m. and these are generally at 70 deg to CA. Some breccia [associated with a few minor slip planes generally at 15 deg [to CA. Some small quartz veins and vein fragments assoc. [with these slip planes on occasion. Veins are small and	26126 26127 26128 26129 26130 26131 26132 26133 26133 26134 26135	56.95 58.00 59.00 60.00 blank 61.00 62.00 63.00 64.00 65.00	58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 65.90	1.05 1.00	0.025 0.054 0.079 0.134 < 0.005 0.338 0.081 0.2 0.38 0.463						

From	To	Rock Type	Code	Description	Samole#	From	То	Meters	Au q/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd a/t
i	i	1	i	generally less than 2 cm. Reasonabley competent unit but									1	
i	i	i	i	fairly numerous fractures at 40 and 70 deg to CA in general.	i	1		1	1	1	ł	l	1	}
1	i	i	i	Unit contains 2% disseminated pyrite, some chalco & pyrite	i			1	i	i i	ŀ	ĺ	Ì	1 1
i	i	1	i	observed in a guartz clot at 63.60m. Projected up dip of				<u> </u>	1					
i	1		ł	No.1 vein at or about 65 m. No major vein observed.				+					1	
1	1		1				·		<u> </u>	<u> </u>			f	f {
65.90	67.40	Mafic Dyke	6U	Upper contact of dyke and volcanics associated with	26136	65.90	67.40	1.50	0.069	1	, 		1	i i
1	1		1	fracture at 15 deg to CA. This unit very similar to dyke		00.00	01.40	1 1.50	1 0.000		i	1	ì	i i
1	1	1	i	described above from 53.20 to 56.95. Unit is fine grained &		1		i	1	1		1	i	
1	1		1	Idark grey to black in color with no HCL reaction and no		1		1	1	1	1	1	i	
1	1	1	1	response to magnet. Some small rafts of volcanic within dyke	-	1		1	1	1	r 1	1		
1	1		1	IUnit is predominantly composed of mafic minerals, a few		1	-	1	1		1	1	1	: :
1	1		1								1	1	1	
1		1	1	Itiny white speckles noted thought to be feldspar. Estimate	1			1	ļ	1	1	1		
!	1		1	of 2-3% disseminated pyrite. Rare quartz clot or two noted									1	1
!	1		ļ	with some pyrite and chalco. Competent unit with a few				1		1			1	1
1			Į.	slip planes again and fractres at 60 deg to CA in general.	1			1		1			1	
1	I		I	This unit can be scratched with some effort & considered	1			1	[1			1	
1	1	1	1	hard but basically unaltered. Lower contact along fracture	1	1		1	1	ł	1	}	1	1 1
	1			lat 30 deg to CA.				1	1	1	1	1		1 I
1 67.40	 83.75	l Mafic Volcanic	2MS	I This is a very fine grained to aphantitic mafic volcanic. It is							1	1		
107.40	103.75		21013	I grey to light grey in color. It is non magnetic and has no	26137	67.40	68.00	0.60	0.279		1	1	1	
1	-	1	1		26138	68.00	69.00	1.00	0.058	1	1	1	1	
1		1	1	HCl reaction. The unit is very hard and significant effort	26139	69.00	70.50	1.50	0.128	!	1	1	1	1 1
1		1	1	Irequired to scratch it, possible silicification of unit. Minimal	26140	70.50	72.00	1.50	0.17	1		1	1	
1			l	pyrite content estimate overall of 1/2% pyrite at best. A few	26141	72.00	73.00	1.00	0.514	1	1	1	1	
I	ł]	ł	tiny microstringers of quartz calcite generally 80-85 deg	26142	73.00	73.95	0.95	0.071	1	1	•		1 1
1		1	ł	Ito CA, these are minimal in extent and not considered	26143	73.95	75.10	1.15	0.014	1		4		1
ł	l	1	1	signifiant. Relatively competent unit with fractures generally	26144	75.10	76.50	1.40	0.564			1	1	
1	ł	1		at 40 and 60 deg to CA in general and some minor slip	26145	76.50	78.00	1.50	0.162]	ł	l		ł
1	1	1		planes at 20-30 deg to CA. Small blocky broken fault zone	26146	78.00	79.50	1.50	0.005	ł	1	1		1 1
ł	í	1	1	(noted at 80.70 to 81.00. Occassional such as at 73.95-75.1.	26147	79.50	81.00	1.50	0.041	1	1	ļ	ł	1 1
1	1	1	ł	Lower contact at 30 deg to CA.	26148	81.00	82.50	1.50	0.01	ł		1	ļ	
t	I		1		26149	82.50	83.75	1.25	0.008	l	1	l	1	1 1
1	1	1	1	t	1	1	l	1	1	1	I		1	
83.75	 84.63	Lamprophyre	16L	This is a grey colored unit comprised mainly of mafic	26150	stdor221		1	1.05	l I	1	ł	I	l
ł	1	Dyke	1	minerals with substantial black mica typical of lamprophyre	26151	83.75	84.63	0.88	0.903	1	1	I	I	1
ł	1]	I	dykes in the Abitibi Belt. The unit is non magnetic and has	l	1		ļ	ł	1	1	1	ļ	1 1
1	1	1	l	Ino HCL reaction and unit is considered hard as difficult to	1	1	t	1	1	i	1	1	1	1
ł	1	1	1	scratch. The unit does not have any significant sulphide &	1	l	1	1	1	1	1	I	1	1
1	1	Ì	1	lis not altered. The unit is medium grained. No veining of	ł	1	1	1	ł	1	1	Į	1	1
i	1	ł	i	any sort observed and competent interval. Somewhat	1	1	ł	1	1	1	1	1	1	1
Ì	1	İ	ł	lerratic lower contact.	1	1	I	1	1	1	i	I	ł	1
ł	1	1	I	1	I	ł	1	l	1	I	I	1	1	1
 84.63	185.33	Mafic Dyke	6U	[This unit is mainly compised of subangular fragments of	26152	84.63	85.33	0.70	0.046	I	L	I	1	1
1	t	(Diatreme)	1	various compositions including quartz feldspar porphyry.	ł	l	1	1	1	1	1		1	1
1	ł	1	1	Very little matrix material noted, where present mainly	1	1	ł	1	1	1	ł	1	1	1
1	F	ł	i		1	i	İ	i	Ì	i	i	i	i	1

From	To	Rock Type	Code	Description	Sample#	From	То	Meters	Au g/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t	
	l.		1	mafic minerals. Some minor pyrite noted, no significant	l		1	1	1]
1	1		1	veining present. Competent unit with no significant fractures		1	I	1	1		I	1	l		1
I	1		1	or slips. Non magnetic unit, wih no HCL reaction and an	1	ł	1	1	1	ł	1		1		1
1	I		1	extremely hard unit. Lower contact at 35 deg to CA.	1	l	1	l	i	l	1	1			i i
1	j.	1	1		1	1	1	1	i	J	ļ	J	1		J –
185.33	190.00	Mafic Volcanic	2MS	This is a fine grained, grey colored, massive mafic volcanic	26153	85.33	86.00	0.67	< 0.005	ł	ł	l	1		1
1	EOH	i	i	Ithat is non magnetic, has no HCL reaction and is very hard	26154	86.00	87.00	1.00	0.039	l	l	I	1		1
1	i		i	and possibly silicified. A few minor quartz veinlets less than	26155	87.00	88.00	1.00	0.263	1	I	1	1		1
Í	i	Ì	i	a cm or so wide. Trace of pyite at best. Competent unit	26156	88.00	89.00	1.00	0.038	ł	I	[1		1
Í	i	1	i	with some fractures at 60 deg to CA and occassional slip	26157	89.00	90.00	1.00	0.053	l	1	ł			1
i	i	1	i	at 15 deg to CA in general. EOH 90 m.	1	1	1	1	1	1		I	1		1
İ	i		i		i	l	1	Ì	1	1	1	1	1		Ì
j.	i	i	i	Tests	i	l	1	1	Ì	ł	1	1	1		1
i	i	i i	i	Depth: 51m	i	1	1	Ì	l	1	1	1	1		i
i	i	Ì	i	Test Az:141.6 deg Corrected: 130.1deg Dip: -61 deg	i	1	i	Í	Ì		l	1	l		Ì
i	i		i		Ì	1	Ì	Ì	1	1	I		1		1
Ì	i	Ì	i	Depth: 90m	i	ł	i	I	1	Ì	Ì	Ì	1		i i
i	i	1	i	Test Az: 141.8 deg Corrected 130.3 deg Dip: -60.80	1	Ì	ł	1	ł	1	1	1	1		1
ł	i	İ	İ		1	1	ł	1	i	ł	t	I	I		1

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Prospect DDH: JS2 Core Size CLAIM: L	2013 e: NQ	haft Area No.6 Vein T Azimuth/Dip: 20/-6 Tests: see last pa EOH:129.00	55	Grid Location: N/A See UTM Coordinates UTM:560325E 5336177N Nad 83 Zone 17 Date Drilled: Sept 18 to Sept 20 2020 Date Logged: Feb.14 2020 to Feb 16 2020	Drill Compa NPLH Drilling Logged by: K. Filo			Core Storage	e: Pelangio F	Field Office C	onnaught On	itario.	1	1 I
<i>From</i> 0.00	1 70 16.20	Rock Type Casing	Code	<i>Description</i> Note, casing left in hole.	Sample#	From	То	Meters	Au g/t	Auppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t
6.20	 21.00 	Mafic Volcanic	 2U 	This is a fine grained grey mafic volcanic with a few small interevals of green altered volcanic with some amgdaloids, looks very simiar to unit described in JS2014 from 73.10 to 83.90. The unit is hard and difficult to scratch with a knife. Sections with amygdaloids may be possible pillow salvage? The unit does not have an HCL reaction, but there are a few qtz calcite microstingers at about 60-70 deg & 15 deg to CA which react to HCL. Microstringers pretty minor and make up about 1-2% of unit. Competent unit, a few fractures noted at 60-70 deg to CA in general similar to microstringer orientation. Some minor slip planes again at 10-15 deg to CA.; occassional hematite noted on slip planes. Unit is not magnetic. Sparsely mineralized with	26357 26358 26359 26360 26361 26362 26363 26364 26365 26366 26366 26366	6.20 7.00 8.00 9.00 10.50 12.00 13.50 15.00 16.50 18.00 19.50	7.00 8.00 9.00 10.50 12.00 13.50 15.00 16.50 18.00 19.50 21.00	0.80 1.00 1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	< 0.005 0.008 1.11 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005					
21.00	 40.00 	Mafic Volcanic	 2MS 	pyrite, perhaps 1/2-1% disseminated pyrite. Lower contact gradational. at 21.00 to 40.00 Very massive looking fine grained grey colored volcanic that is non magnetic, and has no HCL reaction. Very minor quartz calcite stringers generally 80 deg to CA but	 26369 26370 26371	 21.00 blank 22.50	22.50 24.00	1.50 1.50	 < 0.005 < 0.005 < 0.005		 			
40.00		Mafie Valensia		less than 1% of unit. Estimate of trace to 1/2% pyrite. Very hard unit and difficult to scratch & does not appear altered. No significant structure observed other than a few fractures at 60 deg in general and minor slip plane or two at 10-15 deg to CA. Competent unit. Gradational contact.	26372 26373 26374 26375 26375 26376 26377	24.00 25.50 27.00 28.50 30.00 31.50	25.50 27.00 28.50 30.00 31.50 33.00 34.50	1.50 1.50 1.50 1.50 1.50 1.50 1.50	<pre>< 0.005 < < 0.005 < < 0.005 < 0.005 < < 0.005 < < 0.005 < < 0.005 < < 0.005 </pre>					
40.00	58.15 	Mafic Volcanic	2U 	at 40.00 to 58.15 Again a fine grained grey black mafic volcanic that is somewhat unusual looking due to speckled appearance sproradically through unit. There are tiny flecks or poorly developed phenocrysts of a mafic mineral and tiny white flecks or poorly developed phenorcrysts of plagioclase. The unit is non magnetic and has no HCL reaction; unit is fairly hard and difficult to scratch. At 48.70 to 49.80 distinct fault plane sub parallel to CA.; reasonably competent unit but a number of minor slip plane at 5-10 deg through out the unit. Some fractures noted as well at 60	26378 26379 26380 26381 26382 26383 26384 26385 26386 26386 26387 26388	33.00 34.50 36.00 37.50 39.00 40.00 41.00 42.00 43.50 45.00 46.50	34.50 36.00 37.50 40.00 41.00 42.00 43.50 45.00 46.50 48.00	1.50 1.50 1.50 1.00 1.00 1.00 1.00 1.50 1.50 1.50 1.50	< 0.005					

From	I <i>T</i> o	Rock Type	Code	Description	Sample#	i From	I To	Meters	Au g/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t	ł
i	i		i	Ideg to CA in general. Minimal quartz and quartz calcite	26389	48.00	49.50	1.50	0.157		1		1		1
i	i	i	i	microstringers noted, not significant, noted some at 40 deg	26390	stdor221	1	ł	1.03		1	1	1	1	1
ł	i	i	i	to CA at 54-55 m. Pyrite content estimated at1% in diss.	26391	49.50	51.00	1.50	0.016		1	l l	İ	l	1
i	í		i	Iform. Unit is not considered altered. Lower contact is	26392	51.00	52.50	1.50	0.085		1	1	Ì	ĺ	i
i	i	1	1	associated with a slip plane oriented at 20 degree to	26393	52.50	54.00	1.50	0.018		i	i	i	1	i
í	·]	1	}	ICA.	26394	54.00	55.50	1.50	0.006		i	i	i	i	i
i	1		ł		26395	55.50	57.00	1.50	0.014		i	i	i	i	i
158.15	158.50	l Quartz Vein	Qv	IGrey black guartz vein with substantial wall rock	26396	57.00	1 58.15	1.15	0.949		1	1	1	1	i i
1	100.00			component and a few specks of pyrite. Lower contact	26397	58.15	58.50	0.35	2.54	1	1		1	1	i
i	1			along slip plane as well.at 10 deg to CA. Some minor hematite in vein.					1		1	!		, 	
l 58.50	l 164.50	l Mafic Volcanic	l I2HY	l Again a fine grained grey black mafic voclanic with some	26398	l 58.50	1 1 59.00	0.50	l 0.024	ł	1	1		1	1
1	101.00		1	hyaloclastite. The unit is extremely hard, non magnetic	26399	59.00	60.00	i 1.00	0.169	, I	1	1	1	1	i i
ł		1	1	and has no HCL reaction. A few rare quartz calcite	26400	l blank	1	1 1.00	< 0.005		ł	1	1	1	ł
1	1	1	1	microstringers from 64-64.50 m.; these are oriented at 80	26401	60.00	, 61.50	1.50	0.113		1	1	1 .	1	i
ł	1	1		plus degrees to CA. Outside of this no significant veining.	26402	1 61.50	63.00	1.50	< 0.005	1	1	1	1	1	÷
1	1	1	1	Very sparse pyrite, trace at best. No major attraction noted	26403	63.00	64.50	1.50	0.335	t i	1	1	1	1	ì
				Relatively competent unit with some slip planes at 10 deg to CA & fractures at 60 deg to CA in general. Lower contact ground.		 	 		 		, 	, 	, 	, [
64.50	 65.60 	Fault Zone	 FZ 	I This fault is a brittle blocky broken zone that is ground up and it marks contact between volcanics and a vein of quartz The fault is hosted in a bleached mafic. The bleached Imafic is not mineralized and is soft. It has a strong HCL Ireaction and it is non magnetic. Lower contact with vein associated with a slip plane at about 5-7 deg to CA.	 26404 	64.50	65.60 	1.10	1 1 0.07 1 1 1 1						
 65.60 	 66.20 	 Quartz Vein 	 Qv 	I This is a white quartz vein which runs sub parallel to the gabbro unit below. There is some epidote noted in vein Jout it is not mineralized. Erratic lower contact as vein Ibreaks up into a couple of small stringers.	26405 /	65.60	66.20	0.60	 11.4 				1 1 1 1		
l 6620	1120.00	l I Cabbra		l lat 66.80 to 82.75	1	1	1	1	1	1	1	1		1	1
10020	129.00	Gabbro	ļ6G	This a greyish unit as well typical of gabbro units found	1 26406	66.20	I I 67.50	1.30	0.097	\$ •	1	1	1	1	-
1	1		1				i 69.00	•	•	1	1	1		1	-
1	1		1	on the project to date. It is primarily composed of mafic	26407	67.50	•	1.50	0.249	1	1	1	1	1	
I.	1		1	minerals mainly amphiboles, palgioclase and some quartz.	26408	69.00	70.50	1.50	0.007	1	1	1		1	ţ
	1		ł	The unit is medium grained, fairly hard and difficult to	26409	70.50	1 72.00	1.50	1.49	¶ *	1	1	1	1	-
1	ŀ		1	scratch wiith a knife. It does not react to HCI. Fairly	26410	72.00	73.50	1.50	0.329	1	1	1		1	-
	- I		1	Imagnetic throughout due to presence of magnetite but	26411	73.50	75.00	1.50	0.037	1	1	1	1	1	l
1	ł		Į	locally weakly magnetic over short intervals. The unit	26412	75.00	1 76.00	1.00	0.008	1	1	1	1	1	1
ļ	ł		1	is medium grained. No signifiant veining of any sort	26413	76.00	77.00	1.00	< 0.005	1	I.			1	t,
	1		1	noted and not really altered. Very sparse pyrite, estimate	26414	{ 77.00	78.05	1.05	1.2	1	-	1	1	1	
!	1		I	of trace. Fairly competent unit beyond 69 meters; from	26415	78.05	78.70	0.65	0.042	1	1	1	1	1	-
1	1		I	contact to 69 there is a number of slips at 10 deg to CA	26416	78.70	79.50	0.80	0.01	1	1	1		1	1
I	1	1	l		ł	1	I	I	1	I	1	I	1	1	I

<i>From</i> 	To 	Rock Type 	<i>Code</i> 	[Description [and minor small fault at 68.90 to 68.10 with broken blocky [ground oriented at 5 deg to CA. Beyond 69 just a few [fractures at 60 and 30 deg to CA in general and a few [minor slips at 10-15 deg to CA. Note a small lamprophyre [dyke from 78.05 to 78.37 with upper contact at 70 deg to [CA. This dykes lower contact in against a diatreme with [numerous angular fragemensts of various types, the lower [contact of the diatreme is at 78.70 and it at 80 deg to CA. [This diatreme is simialr to that described in other holes from [the Sept 2020 program.	Sample# 26417 26418 26419 26420 	From 79.50 81.00 82.50 stdor221	<i>To</i> 81.00 82.50 84.00	Meters 1.50 1.50 1.50 1.50 	Au g/t 0.013 0.005 0.014 1.05	Au ppb	Pt ppb	Pt g/t	Pd ppb 	Pd g/t	
ł	1		Ì	at 82.75 to 108.00		1		1	1	1	ļ	1 1	1	1	ł
i	i	1	i	Continuation of gabbro unit from above. This particular	26421	84.00	85.50	1.50	< 0.005	l	1	l	i	i	i
I	ł	1	1	section is mainly grey in color but from 99-102 more of a	26422	85.50	87.00	1.50	0.457	ł	l .	1	I	1	1
	1	1	I.	light grey and more medium to coarser grained as more	26423	87.00	88.50	1.50	< 0.005	l	1	I	1	ł	1
1	1	1		plagioclase. Outside of section from 99-102 unit is generally	26424	88.50	90.00	1.50	0.809	1	ł	I	1	1	1
ł	1			medium grained. Strongly magnetic throughout and some	26425	90.00	91.50	1.50	< 0.005	1	I	l	1 -	1	1
I I	1	1	ł	Imagnetite present. The unit is hard and extremely difficult to	26426	91.50	93.00	1.50	0.019	l	1]	J]	1
1	1		I.	scratch. No obvious significant alteration except for local	26427	93.00	94.50	1.50	< 0.005		1	t	1	1	
1	1		1	lepidote patches. No significant veining, a few stringers	26428	94.50	96.00	i 1.50	0.102	l	i	1	1	ł	!
1	1	l	l	of quartz calcite between 86 to 86.5; not significant, some	26429	96.00	97.50	1.50	3.61	1	1	I	1	ł	ŧ
1	1		1	minor epidote stringers as well noted, again not significant.	26430	blank			0.021	ł	1	l	1	1	1
1	1	1		The unit does not react to HCL. Slight increase in pyrite from	26431	97.50	99.00	1.50	0.493	l I	1	1	1	ł	ł
1	ł		ł	linterval above 0.5 to 1%. A few stringers as well as	26432	99.00	100.50	1.50	0.04	l	1	1	1	1	1
1	ł		1	Idisseminated pyrite noted. This is a very competent unit	26433	100.50	102.00	1.50	0.861	1	1	ŀ	1	1	1
I	1	1	1	overall but still a number of tight slips present at 10-15 deg	26434	102.00	103.50	1.50	0.839	1	1	1		ł	1
I	ł		1	Ito CA. and some fractures as well generally at 60 deg to CA.	26435	103.50	105.00	1.50	< 0.005	l	1	I	1	1	i
1	1		ł		26436	105.00	106.00	1.00	0.016		1	1	1	1	
I	ł	1	ł	Jat 108 to 127.00	26437	106.00	107.00	1.00	0.022	ŀ	1	1	ł	1	
I	ł	1		Continuation of gabbro unit as desribed above. At 108	26438	107.00	108.00	1.00	0.017	1	1	1	1	1	
1		1	1	to 111 the unit slightly finer grained & becomes more & more	26439	108.00	l 109.00	1.00	< 0.005	ł	ł	1	1	1	
1		1	1	of a light grey bleached color, appears somewhat albitic	26440	109.00	110.00	1.00	< 0.005	1	1	l	1	I	1
1		1	I	jat 109-110 m. Initial portion of this section from 109-111 m	26441	110.00	111.00	1.00	< 0.005	1	1	I	1	I	1
1		l	I	has a significant amount of quartz stringers and quartz	26442	111.00	112.10	1.10	0.011	1	ł	i	ł	1	1
1			I	calcite stringers, stockwork like, these stringer together	26443	112.10	113.00	0.90	0.009		1	1	ł	1	1
1			1	are 5-7% of unit. More than one set of microstringers	26444	113.00	114.00	1.00	0.005		ł	1	1	1	
1		1	I	Inoted crosscuttig each other. Some leucoxene noted in	26445	114.00	115.50	1.50	0.036	ł		ł	1	1	I I
1		1	I	asociation with stringers. No significant sulphide noted at	26446	115,50	117.00	1.50	0.124	ţ		1	1	1	1
1		ł		[108-111, or in entire interval from 108-127, estimate of trace	26447	117.00	118.00	1.00	0.667	1	ł	1	1	1	1
1		l.	1	overall. Outside of 108-111 some quartz calite microstingers	j 26448	118.00	119.00	1.00	23.4	l	t	1	1	1	1
ł		I	1	from 117-118 as well. Section from 117-118 associated with	26449	119.00	120.00	1.00	8.81	1	ł	I	1	1	
ł		1	1	some bleaching (weak) and some leucoxene. Beyond these	26450	stdor221	1	ł	1.05	I	t	I	1	ł	ļ
I		1	ļ	two areas little or no veining. Entire section from 108-127 is	26451	120.00	121.50	1.50	0.051	ł	I	l	I	I	I
1	ſ	1	1	strongly magnetic except for areas intensely bleached like	26452	121.50	123.00	1.50	0.006	ł	ł	1	ł	1	ł
I	ł	1	1	108-109. Unit does not react to HCL except areas like	26453	123.00	124.50	1.50	< 0.005	1	1	ł	1	1	1
1	I	ł	i	108-109 m. A few epoidote stringers locally in this unit.	26454	124.50	126.00	1.50	0.048	l	1	I	1	1	
I	l	I	I	1	ł	1	1	I	1	İ	1	l	I	1	I

From 	То	Rock Type 	Code	Description Outside of th section from 108 to 111 unit is more medium	Sample# 26455	<i>From</i> 126.00	To 127.50	Meters	Aug/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t	
i		i	Ì	Igained and grey to light grey in color. Note, some magnetite	26456	127.50	129.00	1.50	0.038	i			İ	i	
i		i	. 1	present throughout unit outside of 108 to 111. Overall this	I İ		ł	1	1	l			ĺ	Í	
Ì		Í	ł	unit is fairly hard to scratch. Competent unit but small		l	I	ł	1	1		l	I		
1		1	ł	brittle fault from 111.80 to 112.1, blocky section with a	1	l	ł	1	1	I.		I	ł		
ł			ł	Inumber of small slips at about 10 deg to CA. Outside of this	1 1	ł	ł	l I	I	I	l	l	ł		
ł			1 ·	Ifractures are present oriented at 55-60 deg to CA in	}	l	ł	1	1	1		1	1		
1		1	ł	general and a few slips at 15-20 deg to CA.			1	1	1	1	ł	I	1		
ł		l	ł	EOH 129.00	1 1		l	1	1	1	1	I	ł		
1		1	ł		1 1	l	1	ł	1	1		l	1		
1				Tests:	1 1		I	1	ł	1	I	}	1		
1			1	Note: This hole extremely magnetic and erroneous test		l	ł	1	1	1	I	1	1	{	
1			1	results thus azimuth of down hole data to be ingnored. Dip			1	1	1	ļ		l		1	
1			1	langle seems corrrect.			1	1	ł	1			1		
ļ			1	lea			ļ	1	1	ł	t		1		
-		ł	1	154 m depth			1	1		1	ł	l	1		
1			1	Az: 25.7 degrees	1	1	1	1		1	1	1	4		
1			1	Corrected Az: 14.2 degrees		1	1	1	ł	1	1	1	1		
		1		Dip: -65.4 degrees		1	1		1		1	‡ 6	1		
1			ł			t I	1		I I	1	1	1	1		
1		1	1	l 199 m depth	1 1 1 1		1	1	1	1	1 1	l F	1		
1		1	1	Az: 27.4 degrees	1	1			1 I	1	1	1	1		
1			1	Corrected Az: 15.9 degrees		1	1	1	1	1	1	1	1		
ł		1	i	Diip: -65.1degrees		1	1	1	l I	1	1	1	1	· · ·	
i		1	İ				1	1	i	l	r F	1	1	, , , ,	
i		i	i.	129 m depth		İ	1	Î	1	i	I	I	1	1	
i		İ	i	Az: 23.3 degrees	1	i	i	i			I	1			
i		İ	i	Corrected Az: 11.8 degrees	1	I	1	i	1	i	4			. , 1 I	
i		i	i	Dip: -64.90 degrees	i	1	i	i	i	i	4	1	i	i i	
		1	r	·	•		•	•	1			1	1		

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DDH: J Core S	ect: Grenfell Sh S2014 ize: NQ : L512579	aft Area Azimuth/Dip: 20/-6 Tests: see last pag EOH:150 m.		Grid Location: N/A See UTM Coordinates UTM:560335E 5336167N Nad 83 Zone 17 Date Drilled: Sept.20 to Sept. 21 2020 Date Logged: Oct.11 to Oct 13 2020	Drill Compar NPLH Drilling Logged by: K. Filo			Core Storag	e: Pelangio f ,	ield Office C	onnaught Or	ntario.	,	1	,
<i>From</i> 0.00	 To 22.25	l <i>Rock Type</i> Casing	Code	l Description Note, casing left in hole.	Sample#	From	То	Meters	Aug/t 	Au ppb	Pt ppb	Ptg/t	Pd ppb	Pdg/t	,
 22.25 		Diorite		Medium grained unit that is greyish salmon pink in color (weak hematitic alteration), with the exception of the last Imeter or so where unit is more grey in color. The unit has Ia poorly developed porphyritic looking texture. Unit is mainly Imade of quartz and plagioclase and minor mafic minerals. The unit Is fairly competent with a few minor slips at about [20 deg to CA. and a few fractures at 60 to 70 deg to CA. Ismall brittle fault with blocky broken rock from 26.9-27.5, [contacts sub-parallel to CA at about 5 deg to CA. Moderate [response to magnet. Moderate hardness. Has strong HCL [reaction. Tiny calcite blebs react to HCL, these mimic a [phenocryst and give the unit a poorly developed porphyritic [appearance. This unit noted in holes JS2001 to JS2006 and [interpreted to be the historical No6 Vein Porphyry [from historical maps. Significant gold mineralization noted [in hanging wall of this unit in previous Pelangio holes [JS2004 and JS2005. The unit has some very fine pyrite [an estimate of 1/2 % overall. Some minor quartz calcite [microstringers observed, not signifiant. Lower contact is [sharp at 85 deg to CA.	26233 26234 26235 26236 26237 26238	22.25 23.00 24.00 25.50 27.00 28.50	23.00 24.00 25.50 27.00 28.50 29.10	0.75 1.00 1.50 1.50 1.50 0.60 	0.035 0.013 0.026 0.043 0.014 0.007						
29.10 	 30.25 	 Mafic Volcanic 	2U 	I This is very fine grined apahanitic unit which also has a Ipinkish grey color (possible hematitic alteration). The unit Is of moderate hardness, apperance of unit suggests Iweak silicification. No response to magnet and no HCL Iresponse except for a few quartz calcite microstrigers. Minor pyrite noted trace to 1/2% overall. Lower contact Iwith major fault zone 3 deg to CA.	26239 26240	29.10 stdor221 	30.00	. 0.90 	0.01 1.04 						
30.25 	36.50 	 Major Fault Zone 	FZ 	This is a typical fault for the Grenfell Project, a brittle, blocky broken fault with substantial ground up core. The unit which hosts the fault is the same mafic volcanic unit which is described immediately above, with no significant change. The lower contact of the fault is marked by a distinct shear plane at 3 deg to CA.	26241 26242 26243 26243 26244 26245	 30.00 31.50 33.00 34.50 36.00 	31.50 33.00 34.50 36.00 36.50 	 1.50 1.50 1.50 1.50 0.50 	 < 0.005 < 0.005 0.006 < 0.005 0.006 	 					

<i>From</i> 36.50 	<i>To</i> 39.10 	<i>Rock Type</i> Mafic Dyke 	Code 6U 	Description This a grey black fine to medium grained dyke that is badly broken up and blocky for about 1.5 meters beyond fault contact. The unit is comprised mainly of mafic minerals. A few tiny fragments noted in unit, pyrite present in disseminated form 0.5-1%. Unit is non magnetic and does not react to HCI. A small vein of quartz calcite noted from 36.65-36.75 but this is a basically the only veining in unit. Unit is of moderate hardness. Lower contact associated with slip plane at 4-5 deg to CA.	Sample# 26246 26247 	From 36.50 37.60 	70 37.60 39.10	<i>Meters</i> 1.10 1.50	Au g/t 0.006 < 0.005 	Au ppb	Pt oob	Pt g/t	Pd ppb 	Pd g/t	
 39.10 	48.20	Mafic Volcanic (Amygdaloidal) 	 2U,amg 	This is a fine grained tan colored amydaloidal mafic volcanic The unit is fairly hard and possible weak to moderately silicified. In many instances amygdaloids infilled with pyrite and in some instances a dark black mafic mineral that is chlorite altered. Unit has pyrite present in disseminated form, stringers and within tha amygdaloids; pyrite content of unit estimated at 5% plus overall, locally over short lintrvals 5-7%. Unit is non magnetic and does not react to HCL. A few minor quartz caclite stringers but not significant. This is a fairly competent unit, some fractures noted at 170 and 50 deg to CA in general. A few slips noted at 15 deg to CA generally.Gradational contact with unit below.	26248 26249 26250 26251 26252 26253 26254 26255 26255 26256 26257	39.10 40.00 blank 41.00 42.00 43.00 44.00 44.00 44.00 45.00 46.00 47.00	40.00 41.00 42.00 43.00 44.00 45.00 46.00 47.00 48.20	0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.20	0.02 < 0.005 < 0.005 0.021 0.031 0.015 0.005 0.006 0.021 < 0.005				3 1 1 1 1 1 1 1 1 1 1		
48.20 	60.00 	Mafic Volcanic		This unit is a fine grained mafic volcanic bascially grey in color with a few local tan colored patches, it has a similar lappearance to unit above as it looks moderately silicified but has no amygdaloids. The unit is very hard to scratch. The unit has no HCL reaction, it is non magnetic and has lonly a few insignificant microstringers of quartz calcite. The unit extremely well mineralized with pyrite (7-10%), many lpyrite stringers as well as disseminated pyrite are present. Very competent unit with a few fractures generally at 30 and 60 deg to CA in general and rare slip at 15 deg to CA in general. Lower contact associated with minor fault at 5 deg to CA.	26258 26259 26260 26261 26262 26263 26264 26265 26266 26266 26267 26268 26269	48.20 49.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00	49.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00	0.80 1.00	0.006 < 0.005 < 0.005 < 0.005 0.013 0.046 < 0.005 0.005 0.029 0.062 < 0.005 < 0.005						
	73.10 	Mafic Volanic	 2MS 	This is a massive mafic volcanic unit that is dark grey to black in color. It also appears silicified and is extremely hard to scrathed. The unit is is extremely fined grained to laphanitic. Again unit is non mangetic and has no HCL preaction. This unit is mineralized with pyrite but it has sustantially less mineralization than previous two units labove. Pyrite content in this unit estimated at 2 to 2.5% and mainly disseminated pyrite. No significant veining of any sort noted with exception of small vein 2 cm or lassociated with small fault at 61.60 to 62.00. Aside from	26270 26271 26272 26273 26273 26274 26275 26276 26277 26278 26279	stdor221 60.00 61.00 62.00 63.00 64.00 65.00 66.00 67.00 68.00	61.00 62.00 63.00 64.00 65.00 66.00 67.00 68.00 69.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.07 0.009 < 0.005 < 0.005 0.009 0.007 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005						

<i>From</i> 	То	Rock Type 	Code 	Description small fault comepetent unit with occasional slip generally 10-15 deg to CA and some fractures generally at 60 deg to CA. Gradational contact with unit below.	Sample# 26280 26281 26282	<i>From</i> blank 69.00 70.00	To 70.00 71.00	Meters 1.00 1.00	Au g/t 0.005 0.005 < 0.005	Auppb	Pt ppb	Pt <u>g</u> /t 	i Pd ppb 	Pd g/t	
 73.10 	83.90	Mafic Volcanic	 2U 	This unit is similar to unit described from 48.20-60 above. It is somewhat unusual looking. Very locally such as at 78.25 it has a few poorly developed amygdaloids which appear to be infilled with qurartz and sometimes [calcite. Patchy mottled texture througout. In general a greenish grey unit. The unit fine grained and moderate to lvery hard, possible silicification of unit from appareance [and hardness. Unit is non magnetic and localized HCL [reaction. Minor quartz calcite stringers, particularily from 175.45 -75.75 and 82-83 m. Stringers are at about 85 deg to [CA. Trace pyrite overall rare clot of pyrite noted at 75.45 to 175.75. Overall a competent interval with fractures generally 170 deg to CA and rare minor slip at 10 deg to CA in general. [Small blocky fault noted from 74.80 to 75.00. Lower [contact with dyke at 30 deg to CA.	26283 26284 26285 26286 26287 26287 26288 26289 26290 26291 26292 26293 26294 26295	71.00 72.00 73.10 74.00 75.00 76.00 77.00 78.00 79.00 80.00 81.00 81.00 82.00 83.00	72.00 73.10 74.00 75.00 76.00 77.00 78.00 79.00 80.00 81.00 83.00 83.90	 1.00 1.10 0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	 0.008 < 0.005 < 0.005 0.009 < 0.005 0.005 0.005 0.005 0.229 < 0.005 < 0.005 0.229 < 0.005						
83.90 	84.95	Mafic Dyke (Diatreme) 	 6U 	This unit is mainly compised of subangular fragments of various compositions including quartz feldspar porphyry. Very little matrix material noted, where present mainly black mafic minrarals. This unit is distinctly similar to the ldyke described in JS2011. The dyke is hard, non magntic and has no HCL reaction. No significant veining or mineralization noted. Lower contact is sharp and at 70 deg to CA.	26296	83.90 	 84.95 	 1.05 	< 0.005 						
84.95	90.20	Mafic Volcanic	 2U 	This is a fine grained dark grey to black colored mafic [volcanic. It has a number of tiny white specks (quartz?) [in patches througout it giving is a psudo-porphyritic [appearance albeit poorly developed. Again the unit is [very hard, non magntic and has no HCL reaction. Very rare [stringer of quartz noted. Estimate of trace to 0.5% pyrite. [Fairly competent unit, a small blocky broken fault noted [from 88.80 to 89.00. Again a series of small slip planes [also present at 10-15 deg to CA. and a fracture set at [60-70 deg to Ca. Gradational contact to unit below.	26297 26298 26299 26300 26301 26302	84.95 86.00 87.00 stdor221 88.00 89.00 	86.00 87.00 88.00 88.00 89.00 90.20	0.95 1.00 1.00 1.00 1.20	< 0.005 < 0.005 0.005 1.07 0.005 0.684 						1
 90.20 	94.25	 Mafic Volcanic 	 2U 	A fine grained light greyish green colored unit that very hard non magnetic and has no HCL reaction. At 90.20 to 91m a number of quartz stringers/ veinlets that run sub parallel to CA. Outside of this area a few minor quartz calcite stringers at 80-85 deg to CA. From 93 to fault contact below the unit becomes intensely altered, bleached with patchy	26303 26304 26305 26306 26306 26307 26308	90.20 91.00 92.00 93.00 94.00 95.00	1 91.00 92.00 93.00 94.00 95.00 96.00	0.80 1.00 1.00 1.00 1.00 1.00 	0.601 0.092 < 0.005 0.014 0.018 0.104 						

<i>From</i> 	<i>T</i> o 	Rock Tvøe 	Code 	Description Isericite??. Distinct increase in veining in last 1.25 meters Iperhaps 4-5% quartz calcite at various orientations. Trace Iof pyrite at best. Very competent unit but becomes slightly Iblocky in last 0.5 m prior to fault. Fault contact a series Iof slip planes at 10 deg to CA associated with ground Irubble.	Sample# 	From	То	Meters 	Aug/t 	Auppb 	Pt ppb 	Ptg/t 	Pd ppb	Pd g/t
94.25 	198.00	 Fault Zone (Major) 	IFZ	This is a major fault zone typical of faults on this property; a brittle blocky fault basically with most of the core ground up. The host rock of the fault is the mafic volcanic unit described immediately above. Lower contact is ground.	26309 26310 26311	96.00 blank 97.00	97.00 98.00	 1.00 1.00	3.6 0.005 1.02	1 		 	1 1 1	
 98.00 	 101.75 	Mafic Volcanic	 2U 	Fine grained to apahnitic light grey colored mafic volcanic. Extremely hard, and appears to have been silcia altered ivisually. The unit is non magnetic and has no HCL reaction A few microstingers and veinlets of quartz calcite at 80 ideg to CA. These make up less than 2% of unit. Traces of pyrite noted, poorly mineralized. Overall a competent unit with a number of fractures at 80 deg to CA. and a few slips lat 5-10 deg to CA; slighly more blocky unit in first meter or lso below the fault. Lower contact at 35 deg to CA.	26312 26313 26314 26314 26315	98.00 99.00 100.00 101.00 1	99.00 100.00 101.00 101.75	1.00 1.00 1.00 0.75	 0.022 0.005 0.006 0.074 					
 101.75 		Mafic Intrusive		I This unit again grey to dark grey in color, it has a more lfine to medium grained and a case could be made for this lbeing a coarser phase of the volcanic package. The unit lhas a series of tiny peppered flecks of quartz throughout it. Some fine pyrite noted but generally less than 1%. The unit ldoes not appear altered and it is non magnetic and has no IHCL reaction. Unit is of moderate hardness. A few rare lquartz stringers, but not significant. Very competent unit with a few fractures generally at 75-80 deg to CA.and Irare slip plane at 15 deg to CA. lower contact at 70 deg to ICA and slightly finer grained in last meter of unit suggesting intrusive nature of unit. This unit 80% mafic minerals and isome quartz, palgioclase??	26316 26317 26318 26319 26320 26321 26322 26323 	101.75 103.00 104.00 105.00 106.50 108.00 109.50 111.00 	103.00 104.00 105.00 106.50 108.00 109.50 111.00 111.70	 1.25 1.00 1.00 1.50 1.50 1.50 1.50 0.70 1 1 1	 0.091 0.251 0.251 0.15 0.049 0.12 0.032 0.632					
 111.70 	 127.10 	 Mafic Volcanic 	 2U/2HY 	lat 111.70 to 127.10 Again a fine grained dark grey massive mafic volcanic, with loccassional mottled appareance. Unit is of moderate lhardness and does not appear altered. Unit has trace of lpyrite and a few tiny stringers of quartz locally, not lsignificant. Unit is non magnetic and has no HCL reaction. Extremely competent looking unit, some fractures at 70-75 Ideg to CA and a rare slip plane at 3-5 deg to CA. IUnit has local patches of hyaloclastite between 120-123.50 Ithat is very distinctive. Beyond 120 more of a dark grey	26324 26325 26326 26327 26328 26329 26330 26331 26332	111.70 113.00 114.00 115.50 117.00 118.50 118.50 118.50 120.00 120.55	113.00 114.00 115.50 117.00 118.50 120.00 120.55 120.87	1.30 1.00 1.50 1.50 1.50 1.50 1.50 1.50 0.55 0.32	0.139 0.573 0.232 0.018 0.046 0.235 1.07 0.006 0.596					

From	To	Rock Type	Code	Description	Sample#	From	To	Meters	Au g/t	Au ppb	Pt ppb	Pt g/t	Pd ppb	Pd g/t	I
1	i	1	i	to black color. Small white guartz vein noted at 120.55 to	26333	120.87	122.00	l 1.13	l 0.019	1	1	Ì	1		1
i	i	i	1	120.87, vein contacts at about 30 deg to CA. At 121-122	26334	122.00	123.00	1.00	0.278	I	1	1	1	1	1
i	i	i	İ	Ithere is a number of small blocky broken faults associated	26335	123.00	124.50	1.50	0.063	ł	l	1	1	ŀ	ł
i	i	i	i	with slips at about 10 deg to CA. Lower contact at 60	26336	124.50	126.00	1.50	0.31	1	l	1	Ì	1	i.
i	-	i	i	Ideg to CA.	1		1	1	1	1	1	i	i	i	i
i	i	i i	ł		26337	126.00	i 127.10	1.10	4.02	Ì	•	Ì	i	i	i i
127.10	150.00	Gabbro	1	lat 127.10-144.00	26338	127.10	128.00	0.90	0.514	i	l	i	Ì	1	i
1	1	1	1	This is a medium grained that is generally grey colored.	26339	128.00	129.00	1.00	2.83	i	i	i	1	1	i
i	i i		Í	First couple of meters slightly finer grained, chill margin.	26340	blank	1		0.006		1	1	1	1	ſ
i	1		1	The unit is comprised of ferro mag minerals mainly	26341	129.00	130.50	1.50	0.021		1	, I	ł		÷.
	1	ł	1	amphiboles, plagioclase and some guratz typical of gabbro	26342	130.50	132.00	1.50	1.02	1	1	1	ł		1
	1	1	t I	seen to date on this project. The unit is very hard and	26342	132.00	133.50	1.50	0.307	1	1	1	1	1	-
1	4	1	1	difficult to scratch with a knife. Basically non magnetic to	26344	133.50	135.00	1.50	2.24		1		1	1	1
1	1	ł	1	134 meters and then some magnetite present locally and	26345	135.00	136.50		-	1	1	ł	1	1	1
j t	4	1	1	unit becomes sporadically magnetic. Minor pyrite noted in	26345	136.50	1 138.00	1.50 1.50	0.021 0.156	1	1	1		1	1
1		1	1		•						1	1		1	-
4	1		1	Junit to about 141 meters, estimate of 1% maximum. No	26347	138.00	139.00	1.00	0.232	1	1			1	-
t I	1	1	1	significant veining except at 141-143 where there are	26348	139.00	140.00	1.00	0.028		1		1		ļ
1	1	1	1	Inumerous quartz stringers and veinlets generally at 60	26349	140.00	141.00	1.00	0.134	1	}			1	
1	1		f	deg to the CA. This section from 141-143 is also bleached	26350	141.00	142.00	1.00	0.086	1	1	1	1		1
1	1	-	1	and contain numerous leuxocenes. This 141-143 m. section	26351	142.00	143.08	1.08	0.09	ļ	1	1	1	!	1
1	1	1	[lis believed to be the No.1 vein interecpt. The No.1 vein	26352	143.08	144.00	0.92	0.131		l	1		1	
1	1		1	intercept area also contains 2-3% pyrite in clots and diss.	26353	144.00	145.50	1.50	0.151			1			
1	l		1	form. Outside of bleaching and leucoxene in No.1 vein area	26354	145.50	147.00	1.50	0.875		1	1	1	1	ł
1	Í	1	Į	and locally some minor patchy epidote the unit is basically	26355	147.00	148.50	1.50	3.46	1	ł	1		ł	I
1	I	1	1	unaltered. This is a competent unit overall, minor fault zone	26356	148.50	150.00	1.50	0.956	1	1	1	1	1	
I	I	1	1	Inoted from 138-139 with blocky broken core. Upper contact	ŀ	I	1	1	1	1	l.		1	1	ļ
I	I	1	1	at 10 deg to CA with some minor gouge on slip plane. Note	ł	l	1	1	1	1	I	1	ł	1	
1	I	1	ł	some coarser phenocrysts of plagioclase noted from 130	ł	1	1	1	ł	ł	1	1	1	1	ł
I	I	I	1	to 132.5 giving unit a psudo porphyritic look.	ł	1	1		ł	1	1	1	1	ł	
1	I	ł	1	1	1	ł	1	1	1	1	1	ł	I	1	1
Ł	ł	1	1	lat 144 to 150	1	Į	1	1	-	1	1	1	1	Į.	1
1	I	1	I	[Continuation of gabbro unit as described above. This	1	l	1	1		1	1	1	1	1	
	ł	1	I	particular interval still medium gained, and very hard, difficult	I	1	1	1		1	1	1	1	ţ	1
1	ł		ł	Ito scratch. Unit has no HCL reaction and it is magnetic to	1	I	1	1	1	1	I	1	1	ł	
1	ł	1	I	Jabout 149 due to presence of magnetite. Unit is unaltered		I	ł	1	1	1	I	1	1	1	
ł	ł		1	with the exception of some loalized patchy epidote. A little	ł	ł	1	1	1	1	1	1	1	ļ	1
1	1	1	1	Imore disseminated pyrite present more in the order of 1-2%.	1	ł	1	1	1	1	1	1	1	1	Ì
1	1	Í.	Í	Extremely competent unit with no major structure or faults	1	[Ì	1	Í.	Ì	1	Í.	1	Ì	i
1	1	ł	Ì	and a few fractures at 70 deg to CA. (minimal). Rare	1	i	1	1	E	1	1	ł	1	ł	Í
1	i	i	i	stringer of quartz and epidote noted, not significant.	i	Ī	Ì	Ī	ł	ł	1	1	i	i	i
ł	1	i	i		İ	l	i	Ì	1	Ì	i	1	i	Ì	i
i	i	i	i	EOH 150 m.	i	ł	i	1	i	i	1	i	i	i	ì
i	i	i	ł	Tests	i	I	i	i	1	i	i	i	I	i	i i
i	i	i	ł	{51 m: Az 30.4 deg Corrected Az: 18.90 deg & -67.1 deg Dip	1	1	i	i	i	i	1	i	i	i	i
i	i	i	i	102m Az 31.5 deg Corrected Az: 20 deg and -67.3 deg Dip	Ì	1	i	i	i	i	1	1		i	i
•	T	•	•	,	I	•	•	•	•	•	1	•	•	•	

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Category	Date	Invoice #	Payee	Description		Amount	
Geologist	Feb 1/20	199939	Filo Exploration	Geological Consulting		4000.00	
Geologist	Feb 14/20	199941	Filo Exploration	Geo Consulting/core logging		4400.00	
Geologist	May 12/20	199944	Filo Exploration	Geo Consulting/interpretation		1200.00	
Geologist	May 26/20	199946	Filo Exploration	Geo Consulting/interpretation		400.00	
Geologist	Aug31/20	199949	Filo Exploration	Geo Consulting/core logging		1400.00	
Geologist	Sept 30/20	921701	Filo Exploration	Geo consulting/ core logging/field		6200.00	
Geologist	Oct.27/20	921702	Filo Exploration	Geo Consulting/core logging/supervision		6600.00	
Geologist	Jan. 6/21	921704	Filo Exploration	Final Drill Report		4000.00	
					Subtotal	28200.00	28200
Technician	Feb 5/20	41124	Bob Bailey	Core handling job to timmins		1000.00	
Technician	Feb 14/20	DBINV2002	Doug Bryant	Core Cutting		3750.00	
Technician	Oct 28/20	N/A payroll	Scott Woolhead	Core Cutting		1095.00	
Technician	Oct 20/20	N/A payroll	Shea Simon	Core Cutting		2100.00	
Technician	Oct 20/20	PE2004	Doug Bryant	Core Shack Set Up		600.00	
Technician	2020-06-01	inv1914	Exsics	Access route evaluation		1800.00	
Technician	2020-09-28	inv1931	Exsics	Core handling job to timmins		1850.00	
					Subtotal	12195.00	12195
Fransportation	Feb 1/20	199940	Filo Exploration	Filoex jeep mileage		1543.00	
Transportation	Feb 1/20	199940	Filo Exploration	Ski doo rental		500.00	
Fransportation	Feb 1/20	199940	Filo Exploration	Large Truck for core move		102.32	
Transportation	Feb 14/20	199941	Filo Exploration	Filoex jeep mileage		459.80	
Transportation	Feb 14/20	199941	Filo Exploration	Large Truck for core move		199.64	
Transportation	Aug 31/20	199949	Filo Exploration	Filoex jeep mileage		206.25	
Transportation	Sept 30/20	921701	Filo Exploration	Filoex jeep mileage		1617.00	
Transportation	Sept 30/20	921701	Filo Exploration	Large Truck for core move		256.73	
Fransportation	Oct.27/20	921702	Filo Exploration	Filoex jeep mileage		1241.35	
					Subtotal	6126.09	6126.09
Helicopter	Jan 29/20	inv 105221	Expedition	Drill Move Invoice		7353.80	
Helicopter	Feb5/20	inv105226	Expedition	Drill Move Invoice		9379.40	
					Subtotal	16733.20	16733.2

Assays	Feb 5/20	A20-01414	Activation Laboratories Ltd.	Grenfell Assay Cost		5642.60	
Assays	Feb 11/20	A20-01649	Activation Laboratories Ltd.	Grenfell Assay Cost		6875.00	
Assays	Feb 13/20	A20-01793	Activation Laboratories Ltd.	Grenfell Assay Cost		3812.50	
Assays	Feb 18/20	A20-01900	Activation Laboratories Ltd.	Grenfell Assay Cost		2531.25	
Assays	May 12/20	A20-199943	Filo Exploration	Payment final balance of assays		38.24	
Assays	2020-10-01	A20-12005	Activation Laboratories Ltd.	Grenfell Assay Cost		2512.50	
Assays	2020-11-03	A20-12933	Activation Laboratories Ltd.	Grenfell Assay Cost		2405.65	
Assays	2020-11-13	A20-12936	Activation Laboratories Ltd.	Grenfell Assay Cost		1585.50	
Assays	2020-12-04	A20-13424	Activation Laboratories Ltd.	Grenfell Assay Cost		1585.50	
Assays	2020-12-15	A20-13347	Activation Laboratories Ltd.	Grenfell Assay Cost		3883.80	
Assays	2020-12-21	A20-13269	Activation Laboratories Ltd.	Grenfell Assay Cost		2241.50	
					Subtotal	33114.04	33114.04
Maps	Feb 14/20	199941	Filo Exploration	Field Maps		36.98	
Maps	May 12/20	199943	Filo Exploration	Maps for geo interpretation		1548.00	
Maps	May 26/20	199946	Filo Exploration	Access and geo interp maps		540.00	
Maps	Aug31/20	199949	Filo Exploration	Maps for field geology work		324.00	
Maps	Jan. 6/21	921704	Filo Exploration	Map and section work for final report		1258.00	
					Subtotal	3706.98	3706.98
Rental	Feb 14/20	dbinv2001	Doug Bryant	Core Shack Rental		1220.00	
	·		0,		Subtotal	1220.00	1220
Fuel	Feb 1/20	199940	Filo Exploration	Fuel for rental truck		89.81	
Fuel	Feb 5/20	41124	Bob Bailey	Fuel for rental truck		52.66	
Fuel	Sept 30/20	921701	Filo Exploration	Fuel for rental truck		13.86	
Fuel	Sept 30/20	921701	Filo Exploration	Fuel for rental truck		44.09	
	• •				Subtotal	200.42	200.42
Drilling	Mar.1/20	6253	NPLH Drilling	Core Drilling		55352.18	
Drilling	Oct 30/20	6638	NPLH Drilling	Core Drilling		66668.11	
5	-		č		Subtotal	122020.29	122020.29

Cumpling	Fab 1/20	100040	File Exploration	Due Express sharge		9.37	
Supplies	Feb 1/20	199940	Filo Exploration	Bus Express charge			
Supplies	Feb 1/20	199940	Filo Exploration	Assay standards		303.47	
Supplies	Feb14/20	199941	Filo Exploration	Sampling Supplies/bags etc		213.98	
Supplies	May 12/20	199943	Filo Exploration	Copy of Map Material		28.23	
Supplies	Feb 5/20	41124	Bob Bailey	Meal		25.61	
Supplies	2020-02-09	199950	Filo Exploration	Extra core storage rack material (lumber) supply		312.32	
Supplies	2020-06-09	199950	Filo Exploration	Extra core storage rack material (nails) supply		25.36	
Supplies	2020-04-09	199950	Filo Exploration	Fuel for rental truck to move supplies		67.75	
Supplies	2020-04-09	199950	Filo Exploration	assay standards for core assay check		161.46	
Supplies	14/9/2020	199950	Filo Exploration	safety and ventilation hood for core saw work		1184.56	
Supplies	18/9/2020	199950	Filo Exploration	Core shack logging and cutting supplies		206.33	
Supplies	18/9/2020	199950	Filo Exploration	safety supply for core saw operator		156.73	
Supplies	18/9/2020	199950	Filo Exploration	tags for core box (labels)		87.5	
Supplies	18/9/2020	199950	Filo Exploration	sample bags for core		293.57	
Supplies	18/9/2020	199950	Filo Exploration	blank standards for core assay check		21.98	
Supplies	Sept 30/20	921701	Filo Exploration	new core storage rack & core saw drain		392.84	
Supplies	Sept 30/20	921701	Filo Exploration	dust suppression container for core saw		69.98	
Supplies	Sept 30/20	921701	Filo Exploration	water pump for core saw		18.99	
Supplies	Sept 30/20	921701	Filo Exploration	dust suppression & core shack supplies		413.88	
Supplies	Oct.27/20	921702	Filo Exploration	diamond saw blade for core cutting		330.00	
Supplies	Oct.27/20	921702	Filo Exploration	water tank for core cutting		350.00	
Supplies	Oct.27/20	921702	Filo Exploration	dust masks for core cutting safety		96.54	
Supplies	Oct.27/20	921702	Filo Exploration	garbage can for core shack		12.74	
Supplies	Oct.27/20	921702	Filo Exploration	supplies for core saw drain		119.78	
Supplies	Oct.27/20	921702	Filo Exploration	bucket for core saw sludge		6.94	
Supplies	Oct.27/20	921702	Filo Exploration	Ventilation hose for core saw		37.68	
					Subtotal	4947.59	4947.59
						Grand Total	228463.61