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**Diamond Drill Report on the Roy (Sunvest) Property
of Battery Mineral Resources Ltd,
Farr Township,
Larder Lake Mining Division.**

171/5/2019

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1.0 SURVEY OVERVIEW

1.1 PROJECT NAME

This project is known as the **Roy Property Prospect** of the **Elk Lake Project**.

1.2 CLIENT

BATTERY MINERAL RESOURCES LTD.

P.O. Box 219
14579 Government Road
Larder Lake, Ontario
P0K 1L0 Canada

1.3 SUMMARY

The Roy claim group is held by Battery Mineral Resources Ltd (BMR) under option from Sunvest Minerals Corp of Vancouver, BC. The property comprises 9 legacy claims totalling 283.8 ha in Farr Township which converts to 28 single and boundary cells in the new tenure structure.

The property is located approximately 11km northwest of the town of Elk Lake and is reached via 9 km of bush roads and ATV trails heading west from Hwy 65. During the summer of 2018, BMR personnel completed a number of prospecting traverses across the property and conducted detailed mapping over the main showing and some historic stripped areas. A LiDAR survey was used as a tool for accurately locating historic features and traverse tracks. Historically, the area had been explored mainly for silver, but the current work focussed on the exploration for cobalt. The information collected was used to plan and execute the winter diamond drill campaign.

For the current program, a drill was mobilized to the Roy property by the contractor, G4 Drilling of Val d'Or Quebec, on November 21, 2018, and, the program was completed on December 15, 2018. In total, the program consisted of 14 holes ranging in length from 57 m to 300 m for an aggregate of 2352 m, all supervised by BMR geologists. Drilling was carried out under permit number PR-18-000100 issued 11/2/2018.

The Roy property is located in Farr Township, adjacent to, and underlain by, the west flank of the Round Lake batholith, which in turn is unconformably overlain by Cobalt Group sediments intruded by a north- south trending, Nipissing diabase sill that dips gently (about 10 degrees) to the west. Drilling from the bottom level of the Roy mine reveals that the sill is about 550 feet thick and is underlain by approximately 75 feet of Gowganda formation conglomerate.

The Roy (Sunvest) property comprises 3 historic mine sites, the Roy, Little Otisse and Sterling which are aligned north-south. Past development on the property included 3

shafts, which were sunk around 1912. Between 1952 and 1954, Roy Silver deepened the main shaft to 390 feet, did a considerable amount of underground development, and conducted a program of surface and underground diamond drilling. During this period, a minor amount of cobalt concentrate and silver was produced.

Following the BMR summer program of prospecting and detailed mapping, the information was combined with a recent IP survey to formulate a diamond drill program. The holes were drilled in four groups, the first 4 holes checking for extensions of the main vein zone that was mined underground and mapped in detail on surface. The second cluster was intended to test Co-bearing veins exposed by historic stripping and some of the IP targets around the former Little Otisse property area, while the third group of 2 holes were drilled under the Sterling showing and IP anomalies to the west. The last group of 3 holes was designed to intersect a fault south of the Roy shaft that was interpreted from the mapping, drilling and geophysics and to test the depth to the basement granite.

The best value from drilling around the Roy shaft/ stripped area graded 3.61% Co over 0.14m averaging 0.53% over a core length of 1.15 m. Near the former Little Otisse area, the first two holes encountered a series of narrow isolated Co or Cu rich zones associated mainly with chalcopyrite bearing carbonate stringers. The 3 holes drilled west of the projected fault encountered only low Co values. One hole drilled eastwards under the adit of the former Sterling mine site intersected several Co-bearing carbonate (-quartz) stringers/ veins up to 20 cm containing pyrite and chalcopyrite (+/- specularite, galena, silver) and exited the diabase into the underlying sediments. A hole drilled in a westerly direction was stopped prematurely after encountering sediments at the start of the hole.

The final grouping of 3 holes were collared approximately 120 m south of the Roy shaft area. Vertical hole ELR18-13 exited the diabase into sediments at 148.21 m and subsequently entered the basement granitic complex at 177.40 m. It intersected a calcite vein zone in the diabase and returned a weighted average of 0.62% Co over a core length of 1.66 m. The two nearby holes contained a number of minor Co mineralized carbonate veins associated with narrow aplitic stringers and orange altered wall rock similar to that of the vein mined underground at Roy.

When reviewing the entire suite of elements returned from the multielement analyses, it was observed that there is an apparent genetic relationship between elevated Co- Cu- Ag values and above background values of In, P, Sb, Se and Te which may provide a useful guideline for identifying the vein zones in sections where the vein is weak.

Recommendations include: updating of the 3-D model incorporating the existing historical data and the results of the current drilling; project the significant Co

intersections from the drilling to surface and follow up with programs of stripping, washing, mapping and sampling to aid in the interpretation of the vein systems; reinterpret the geophysical and LiDAR surveys in light of the drilling results; re- establish the IP grid and map the entire property; conduct a follow up 1500 m drill program; research the relationship of above background values of In, P, Sb, Se and Te with elevated Co- Cu- Ag values. Total cost of this program is estimated at \$382,820.

All coordinates presented in this report are in UTM NAD83 Z17N.

1.4 ACTIVITIES UNDERTAKEN

Activity	Dates	Details	Performed By
Drilling	November 21 st to December 15 th , 2018	14 holes 2352 m drilled	G4 Drilling
Assaying	August 9 - November 1, 2018	684 samples	ALS Minerals

Table 1: Summary of Work Undertaken

2.0 SURVEY DETAILS

2.1 LOCATION

The Roy property comprises 9 legacy claims totalling 283.8 ha which converts to 28 single and boundary cells in the new tenure structure. It is located in Farr Township in the Larder Lake Mining Division, approximately 11 km northwest of the town of Elk Lake and immediately (200 m) south of the west arm of Hubert Lake. Figure 1 shows the general location of the Roy (Sunvest) property while Appendix 1 lists, and Figure 3 displays, the legacy and current tenure claims.

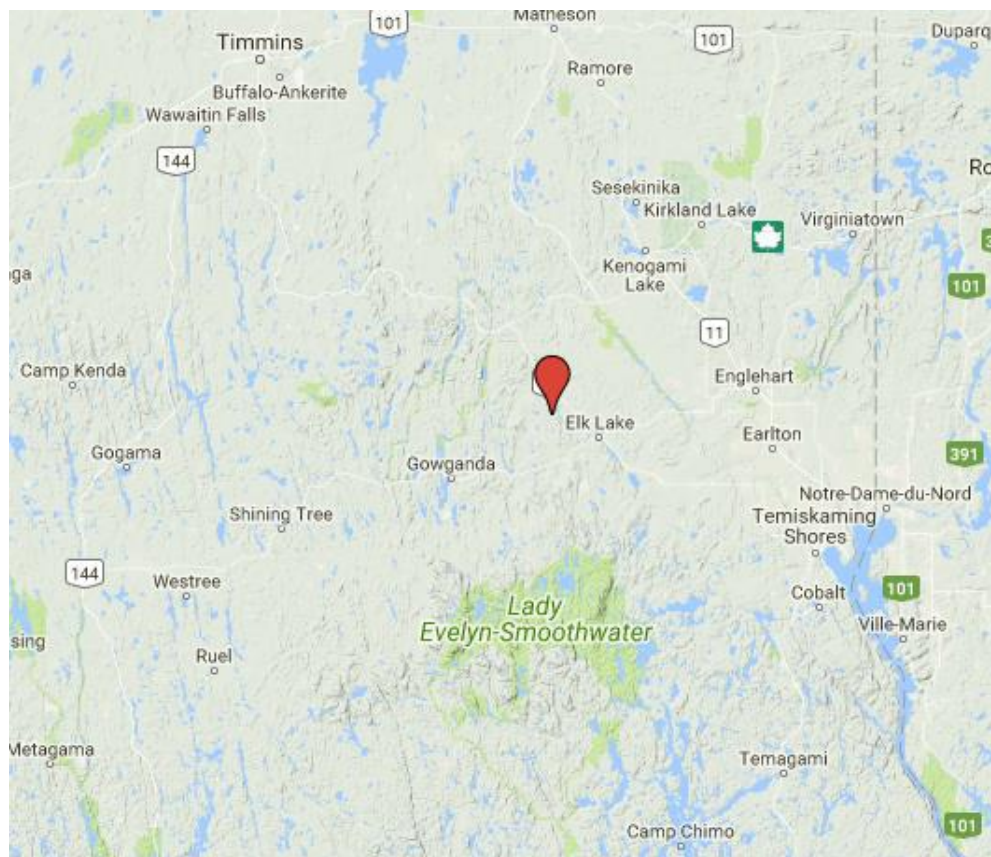


Figure 1. Location of the Roy (Sunvest) Property.

2.2 ACCESS

The Roy claim group is reached by travelling 30 km west from Highway 11 at Englehart along Highway 560 to the Town of Elk Lake and then 12.5 km north on Highway 65 (Figure 2) towards Matachewan. From this point, the property is accessed via 9 km of bush roads and ATV trails which head west past Hubert Lake and then loop southwards and back north around a series of ponds to the Roy shaft

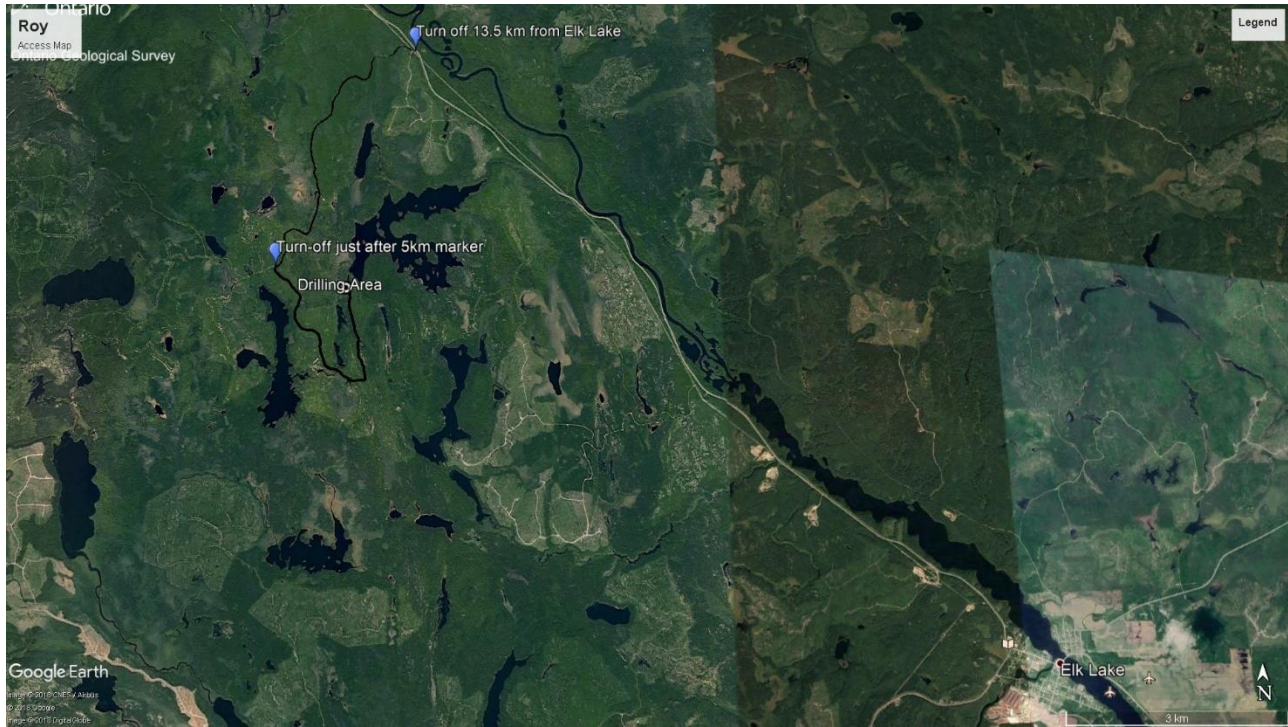


Figure 2. Map displaying the access to the Roy Property from Elk Lake. Bush road = black line.



Figure 3. Access to the Roy Property (yellow), and former Roy, Little Otisse and Sterling mines.

2.3 MINING CLAIMS / OWNERSHIP

Battery Mineral Resources (BMR) holds the Roy property, comprising a total of 28 single and boundary cells, formerly 9 legacy claims totalling 283.8 hectares, under option from Sunvest Minerals Corp, a Vancouver based company. BMR may acquire 100% of the Roy property by spending a total of \$500,000 in work commitments over 3 years and making staged option and stock payments to the vendor.

A full list of the claims that comprise the Shining Tree property are included in Appendix 1 and displayed in Figure 3.

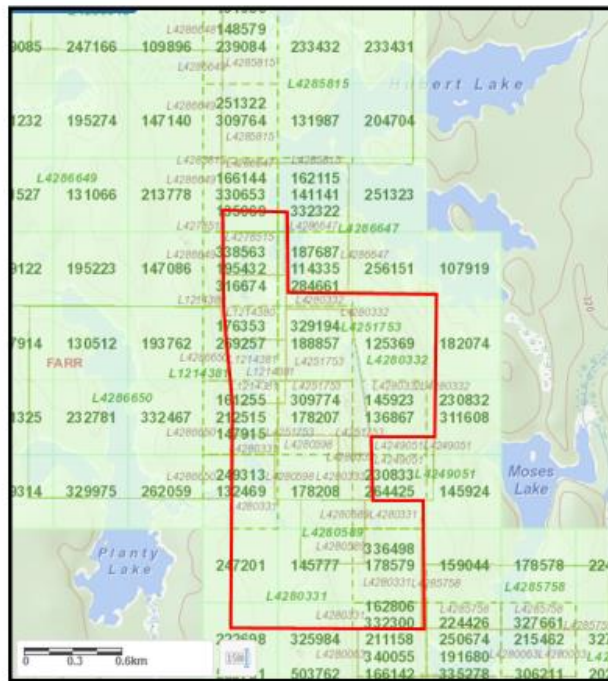


Figure 4. Elk Lake, Roy (Sunvest) Property Claim Cells.

2.4 PROPERTY & EXPLORATION HISTORY

The initial work on the property started around 1912 and includes the sinking of 3 shafts to depths of 75', 125' and 100'. Summaries in MDC 10 (Sergiades, 1968) indicate that there was no record of production until Roy Silver Mines Ltd. leased the property and operated the mine between 1952 and 1954. During this period, work included deepening the main shaft to 390 feet, 1200 feet of underground development, 1178 feet of underground diamond drilling and 3737 feet of surface diamond drilling. In 1954, 2472 tons of treated ore produced a carload of cobalt--copper concentrate averaging 7% cobalt and 6% copper. The MDC reports that 1084 ounces of silver were produced at TTL (Temiskaming Testing Labs) in 1964 and a further 804 ounces of silver in 1966.

Significant additional work was conducted in the vicinity of the shafts following the initial work in 1912. This is summarized as follows:

1950- Bain Melisek group (Currie clm) (Thomson, R); Farr Twp; Robert Thomson (RT) property visit notes, describes mineralization and shafts (depths); CO-920;

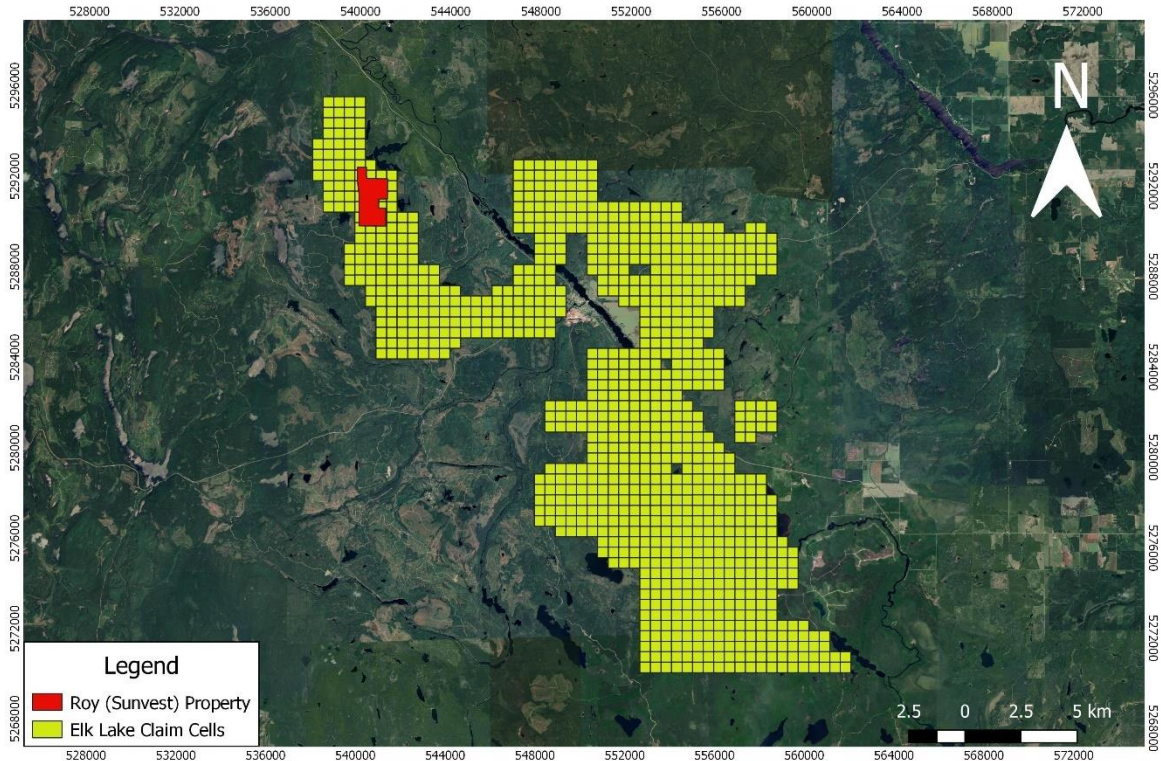


Figure 5. Elk Lake Project claim map with the Roy (Sunvest) Property in red.

1953- 56- Roy Silver Mines; Farr Twp; hard copy binder with underground plans, ddg, geological reports, correspondence, ug and surf channel sampling, assays for Co, mill reports, RT notes; CO-0926 (hard copy);

1955- 56- Tiara (Roy SML) ML (Thomson, R/ Cunningham, LJ); Farr Twp, & others; underg ddh, RT notes of ug mapping?, property reports for Ont & Que, report on underground sampling at Roy SML, assayed & evaluated for Co, mill sampling for Co; CO_0928;

1956- Ross, A group; Farr Twp; RT notes, no assays; CO-0925;

-
- 1964-** Tormont Mines (little Otisse) property (MacVeigh, EL); Farr Twp; geological report, past mining for Co, underground description of veins, Co on dump; CO-929;
- 1977-** Bell, TL claim; Farr Twp; trench sketch, no assays; CO-0921;
- 1990- 91-** Moreau, L claim; Farr Twp; blasting, assays for Ag; CO-0924;
- 1997-** Chartre & Dufresne claims (Roy Silver); Farr Twp; OPAP report, good past work summary, definition of cylindrical joints, assays for Ag, Co, Cu, Ni, Pb Zn, avg of 55 samples 1.64% Co, RT notes about Co grades, **ddg** with Ag, Co, Cu assays (Roy); 41P16SW2001/ 2.18274/ CO-2377;
- 1997-** Lake Superior Resources (Rancicot, F); Farr & Mickle Twp; good summary of Ag environments & past work, lots of grab samples, assayed for Au, Ag, Co, Cu, Ni, Zn; 41P16SW2005/ 2.18736/ CO-2502;
- 1998-** Lake Superior Resources/ Little Otisse (Komarechka, RG); Farr Twp; stripping & trenching, assay for Au, Ag, Bi, Co, Cu, Ni; 41P16SW2004/ 2.18674/ CO-2378;
- 1999-** Lake Superior Resources (Terraquest); Mickle, Farr, & James Twps; A mag & radiometric surveys; 41P16SW2006/ 2.18869/ CO-2503;
- 2002-** Chartre & Dufresne claims (Roy Silver); Farr Twp; pitting/ blasting, assays for Au, Ag, Co, Cu, Ni, Pb, Zn; 41P16SW2009/ 2.25578/ CO-2897;
- 2011-** Shynkorenko, E; Farr Twp; prospecting & sampling, multi element including Co; 2.50105/ CO-3668;
- 2016-** Sunvest Minerals Corp (Roy Silver) (Robillard, I); Farr Twp; summary report of past work; private company report (not in assessment files);
- 2018-** BMR (Weis, T); Farr Twp; geophysical interpretation; private company report.
- 2018-** BMR (Ploeger, FR); Farr Twp; prospecting, detailed mapping and LiDAR report on the 2018 summer program; assessment report.

2.5 REGIONAL & LOCAL GEOLOGY

The regional geology of the Elk Lake area is described by MacKean (1968) as follows (Figure 6):

“All the bedrock in the area is of Precambrian age, composed of granitic rocks of the Round Lake batholith containing inclusions of metavolcanic rocks, Cobalt Group sedimentary rocks representing approximately 70 percent of the surface rock unconformably overlying the granitic and metavolcanic rocks, and Nipissing diabase which intrudes the above rocks in the form of dikes and sills and is itself intruded by olivine diabase dikes.”

The Roy property is located in Farr Township, adjacent to, and underlain by, the west flank of the Round Lake batholith, a granitoid intrusive comprised of a series of mixed phases of trondhjemite, granodiorite and quartz monzonite. The granitic complex is unconformably overlain by Gowganda conglomerate and Lorrain Quartzite of the Cobalt Group at the northeastern edge of a large Huronian age sedimentary basin.

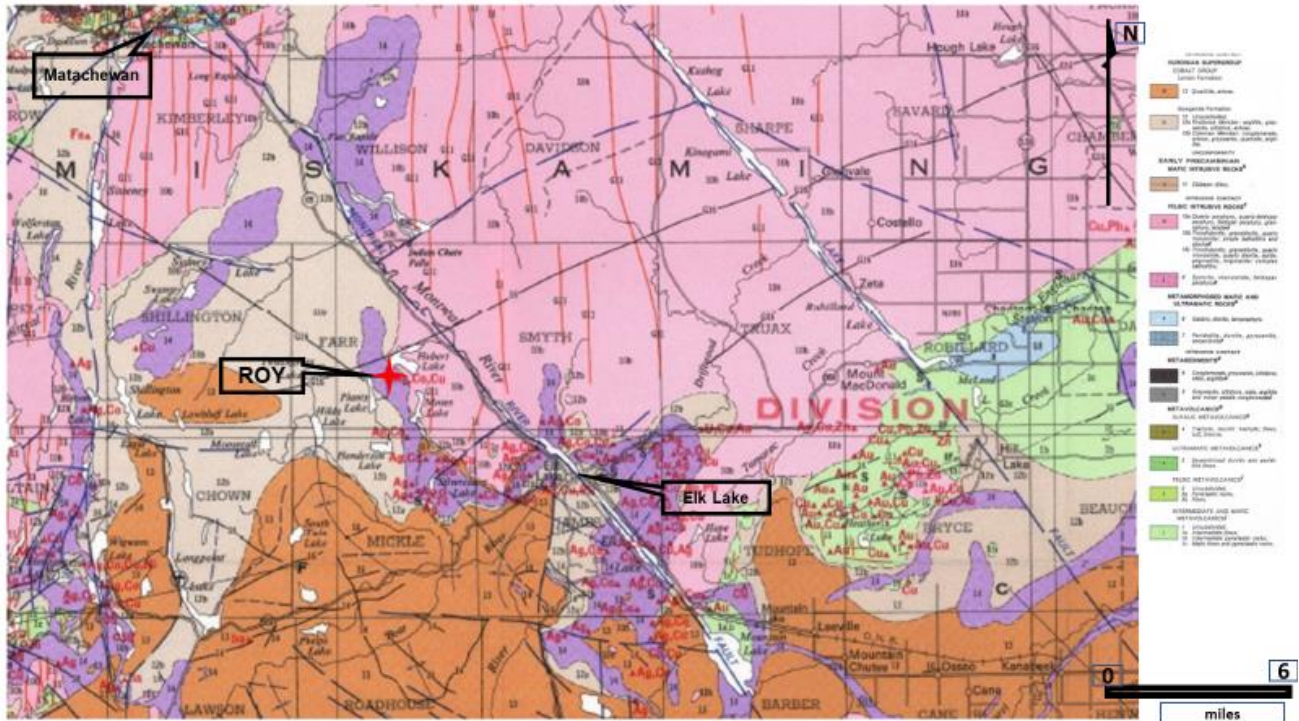


Figure 6. Regional Geology of the Roy (Sunvest) Property (ODM Map 2205).

In the Farr Township area, a north- south trending, Nipissing diabase sill that dips gently (about 10 degrees) to the west, underlies the property, with the base of the sill along the easterly contact, and the top, to the west. Drilling from the bottom level of the mine reveals that the sill is about 550 feet thick and is underlain by approximately 75 feet of Cobalt Group, Gowganda formation conglomerate. This, in turn, unconformably overlies the Round Lake Batholith granitic basement. The sediments outcrop to the west of the main shaft and the granite to the east. Several narrow, north trending calcite veins, containing silver-cobalt-copper mineralization, are found on the property.

Mapping of the outcrops while prospecting across the claims (Figure 7) reveals that the property is almost exclusively underlain by Nipissing diabase. It is variably described as massive, equigranular, dark grey green coloured, medium grained with rare local finer and coarser sections. Generally, it was found to be weakly to strongly magnetic, non to weakly altered (chlorite, epidote, hematite), locally fractured/ jointed with rare cylindrical

joints, poorly veined with minor calcite and/ or quartz fracture fillings, and, mineralized with rare/ trace pyrite and chalcopyrite. A localized cluster of outcrops near the junction of the Planty Lake Side roads 1-1 and 1-3 show the area to be underlain by a phase of medium to coarse grained diabase, probably near the upper contact of the sill.

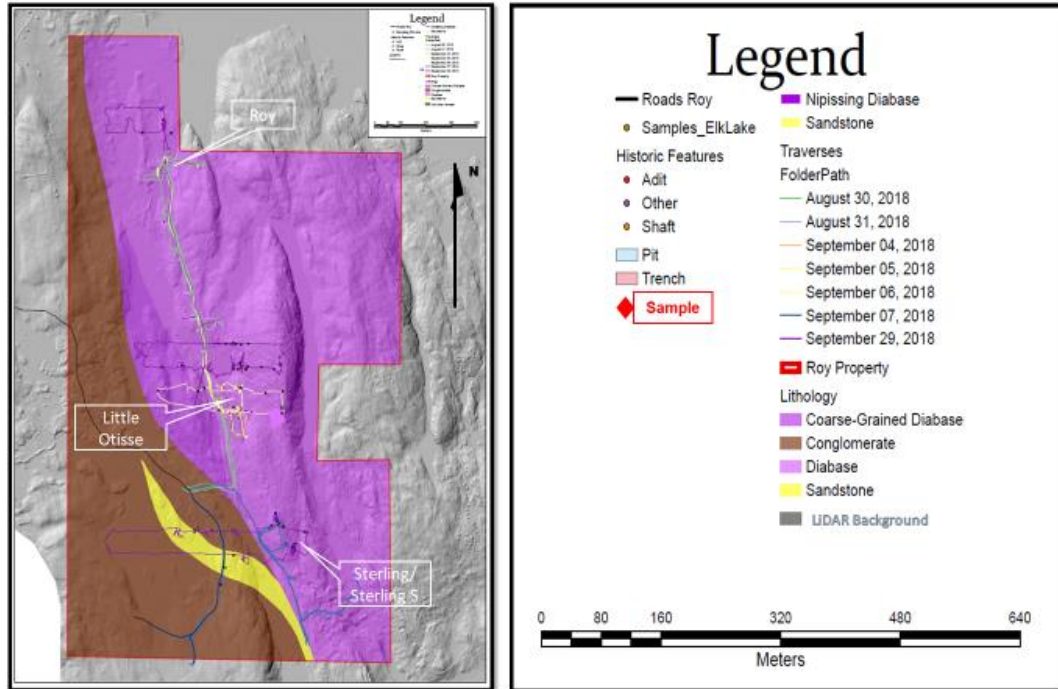


Figure 7. Geology of the Roy (Sunvest) property overlying a LiDAR image.

• 2.6 MINERAL DEPOSIT TYPES

Models of primary cobalt deposits, apart from those in the Central African Copperbelt, are not well defined in the existing literature (e.g., Hitzman et al., 2016).

Kerrich et al. (1986), Andrews et al. (1986a), and Andrews et al. (1986b) undertook detailed geological and geochemical studies of the Ag-Co veins of the historic Cobalt and Gowganda camps and concluded that saline to hypersaline basin brines transported metals to deposition sites, and that these metals were sourced from Huronian Basin aquifers. Ag-Co veins were also interpreted to form directly above sulfide-bearing, Archean metasedimentary rocks (Potter and Taylor, 2009). Considering that both Proterozoic Ag-Co veins and Archean mineralized zones at McAra are hosted in the Huronian Basin and are closely linked to the basement massive sulfide deposits, it is possible that cobalt minerals at McAra also formed from saline basin brine circulation into structural traps as is envisioned for Ag-Co deposits at the Gowganda and Cobalt camps.

3.0 DRILLING

3.1 PERMITS

Permit for exploration drilling at the Roy (Sunvest) Property, Elk Lake Project is PR-18-000100.

- **3.2 TARGETS OF INTEREST**

Following the BMR summer program of prospecting and detailed mapping, the information was combined with a recent IP survey to formulate a diamond drill program. The holes were drilled in four groups, the first 4 holes checking for extensions of the main vein zone that was mined underground and mapped in detail on surface (Figure 8). The second cluster was intended to test Co-bearing veins exposed by historic stripping and some of the IP targets around the former Little Otisse property area, while the third group of 2 holes were drilled under the Sterling showing and IP anomalies to the west. The last group of 3 holes was designed to intersect a fault south of the Roy shaft that was interpreted from the mapping, drilling and geophysics and to test the depth to the basement granite.

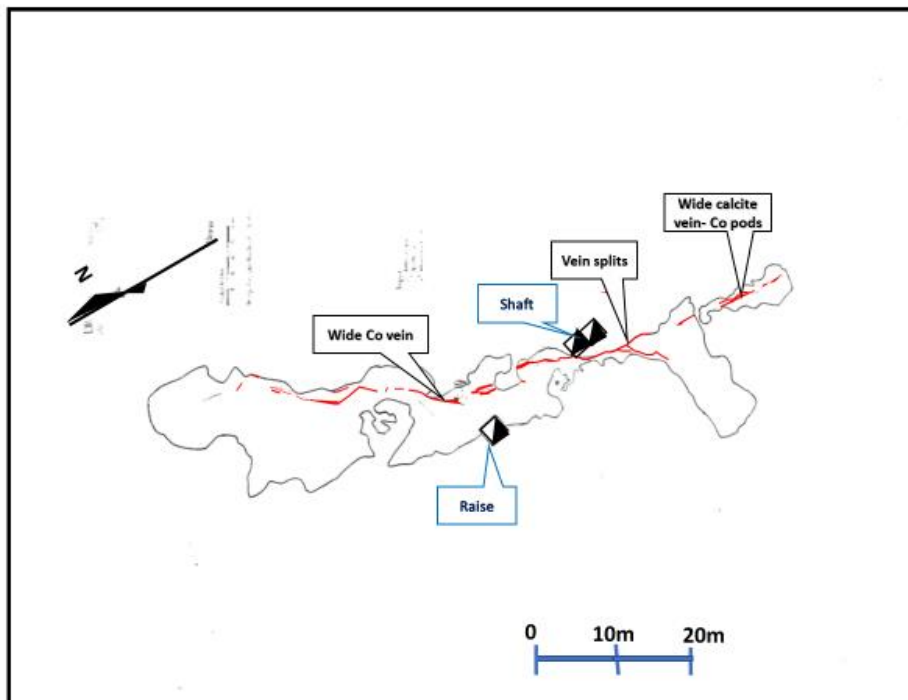


Figure 8. Sketch map of the Co veining on the stripped area of the former Roy mine site. Co vein represented by red line.

3.3 DRILLING

A drill was mobilized to the Roy Property by the contractor, G4 Drilling of Val d’Or Quebec, on November 21st, 2018, and, the program was completed on December 15th, 2018. In total, the program consisted of 14 holes ranging in length from 57 m to 300 m for an aggregate of 2352 m (Table 2). BMR exploration geologists involved with the field and office activities of the drilling campaign included M. Rich, J. Edwards, G. Hamilton, S. Hicks, I. Riddle and M. Metcalfe under the supervision of Senior Project Geologist F. Ploeger and Canadian Exploration Manager P. Doyle. Holes were initially laid out on the IP grid lines and casing coordinates were resurveyed in UTM zone 17, Datum NAD83. The core was quick logged on site in a portable trailer and then brought to the CXS core logging facility in Larder lake where it was logged in detail. As part of the logging process, most vein material was scanned with a portable XRF analyzer (Olympus Vanta model VCR-XXX-G2) prior to being sampled and cut for shipping to ALS Laboratories.

Figures 9 and 10 display the final diamond drill hole collars with projected drill strings, geophysical anomalies and various interpreted structural features. Drill hole metadata and text logs are attached as Appendices 2 & 3.

DDH	mEasting	mNorthing	Elevation (m)	Azimuth	Dip	Depth (m)	Samples Collected	Samples Assayed
ELR18-001	540233	5291983	311	269	-45	201	111	111
ELR18-002	540329	5292010	322	263	-45	255	54	54
ELR18-003	540274	5291893	321	271	-45	177	99	99
ELR18-004	540396	5291003	331	265	-45	150	26	26
ELR18-005	540542	5290893	341	267	-45	276	153	153
ELR18-006	540757	5290400	350	78	-46	123	85	85
ELR18-007	540397	5290906	338	271	-44	150	65	65
ELR18-008	540533	5290294	338	271	-45	57	12	12
ELR18-009	540388	5291671	350	271	-44	300	116	116
ELR18-010	540542	5290890	342	86	-45	150	85	85
ELR18-011	540248	5290997	328	275	-43	96	51	51
ELR18-012	540195	5291886	313	310	-44	120	81	81
ELR18-013	540196	5291885	313	293	-88	186	60	60
ELR18-014	540202	5291858	312	314	-45	111	73	73

Table 2. Roy (Sunvest) Property Drill Hole Summary Table

3.4 RESULTS & INTERPRETATION

Summarized assay results are displayed in Table 3. The Certificates of Analyses, which detail the full assay results are attached as Appendix 4 and additional assay data attached as Appendix 5.

The best value, from the group of holes around the Roy shaft/ stripped area, was obtained from hole ELR 18-01, from a 14 cm wide brecciated carbonate vein zone which probably represents the northern extension of the main vein zone in the Roy

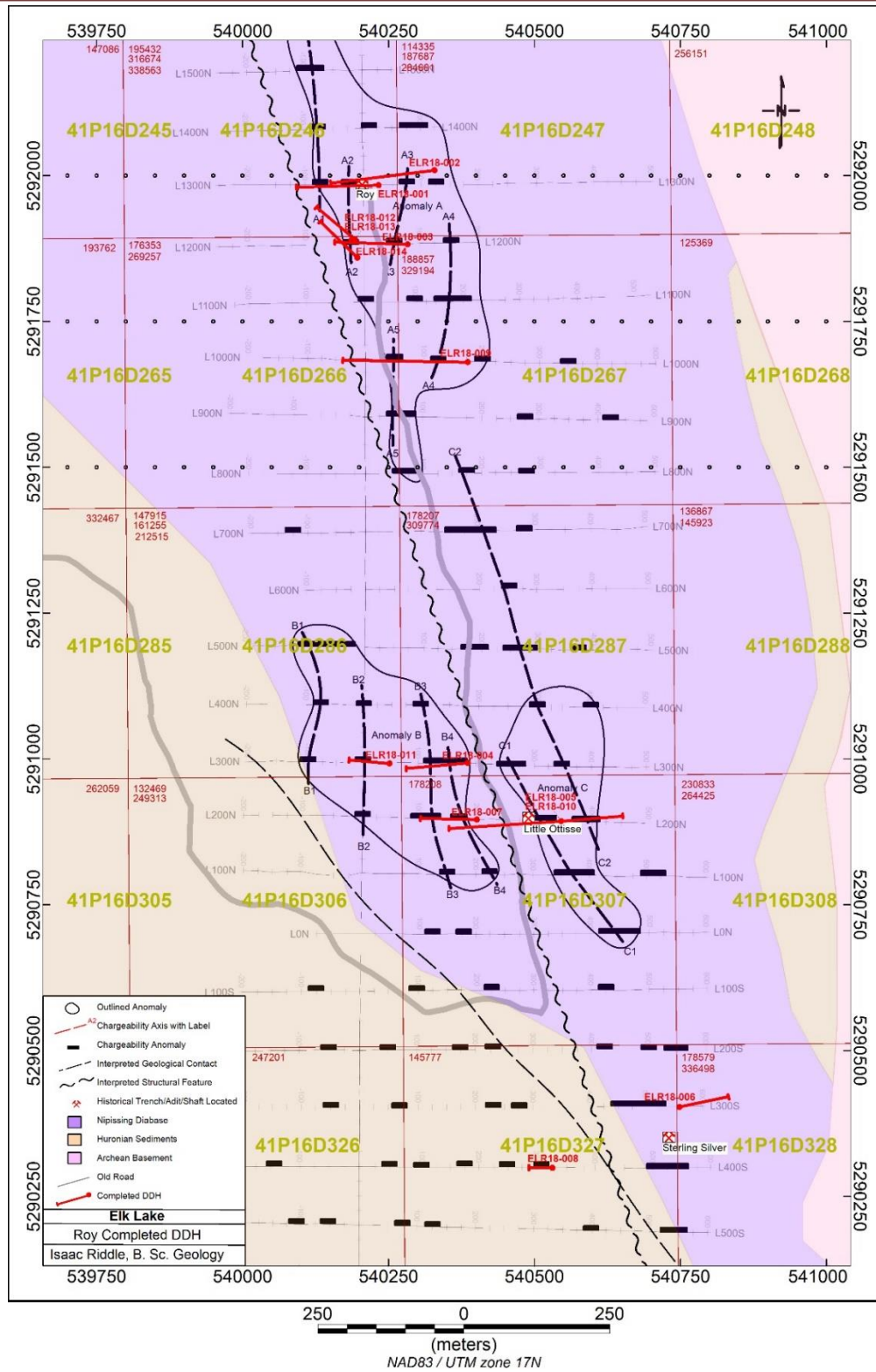


Figure 9. Diamond drill hole locations from the 2018 Roy (Sunvest) Property drill program.

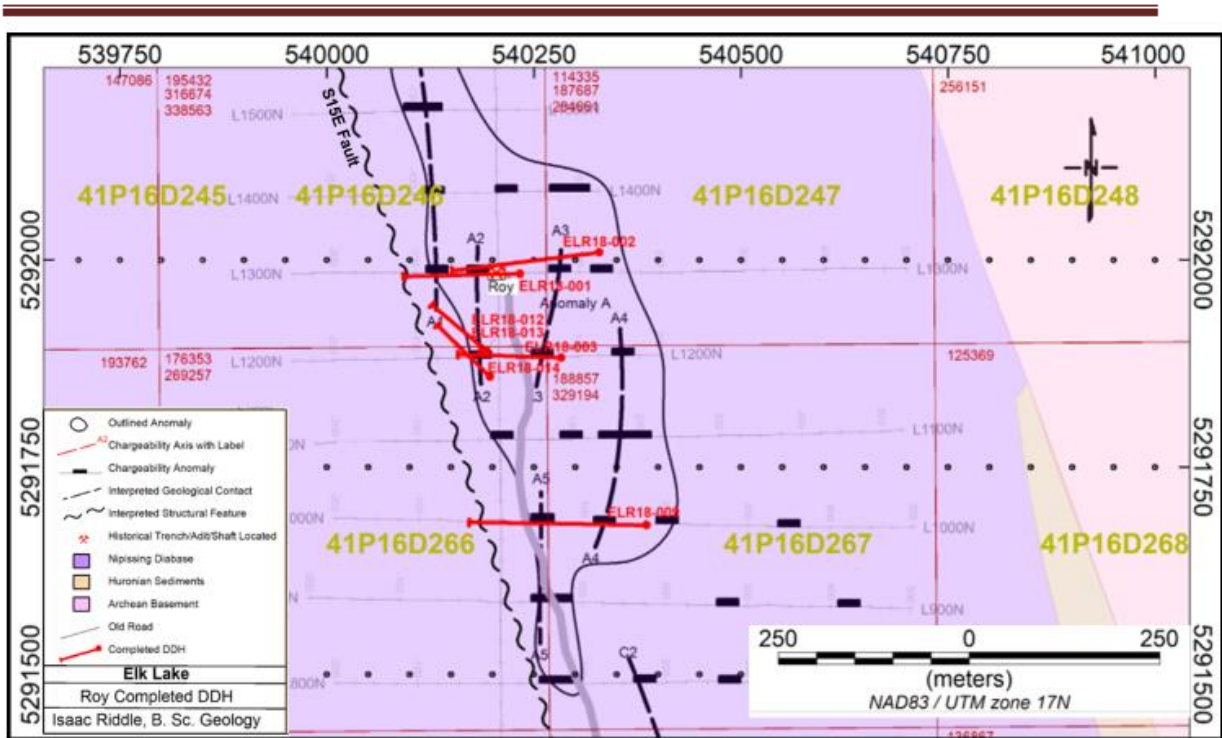


Figure 10. Close up of Figure 9 with an emphasis on the former Roy mine site.

mine. The intercept graded 3.61% Co over 0.14 m, which when combined with the anomalous adjacent values, averaged 0.53% over a core length of 1.15 m.

In the cluster of holes around the former Little Otisse area, ELR18-05 and ELR18-10 tested the vicinity of the former mine site and stripped areas, while holes ELR18-4/ 7/ 11 were drilled west of the interpreted N15E trending fault into various IP targets generated by the CXS survey. The first two holes encountered a series of narrow isolated Co or Cu rich zones associated mainly with chalcopryite bearing carbonate stringers. Of the 3 holes drilled west of the projected fault, hole ELR18-04 did not intersect any significant values, while holes ELR18-07 & 11 encountered only low Co values of about 0.04%. The narrow vein zones did not adequately explain the interpreted IP anomalies.

Hole ELR18-06, the first of the two southernmost holes, was drilled eastwards under the adit of the former Sterling mine site. Several Co-bearing carbonate (-quartz) stringers/veins up to 20 cm containing pyrite and chalcopryite (+/- specularite, galena, silver) were noted in the log. At 100.45 m, the hole exited the diabase and entered into the underlying sediments. Hole ELR18-08 was drilled in a westerly direction to test IP anomalies to the west of the projected fault zone but was stopped prematurely after encountering sediments at the start of the hole.

The final grouping of 3 holes were collared approximately 120 m south of the Roy shaft area. Hole ELR18-13 was a vertical hole intended to drill through the stratigraphic package into the basement. It exited the diabase into sediments at 148.21 m and subsequently entered the basement granitic complex at 177.40 m. The core intersected a calcite vein zone containing Co-rimmed inclusions cutting the diabase at low angles at about 39 m. The weighted average of assays from 37.86 m to 39.52 m returned 0.62% Co over a core length of 1.66 m.

Holes ELR18-12 & 14 are drilled northwesterly from two different set ups near the vertical hole. Both of these contained a number of narrow carbonate veins associated with narrow aplitic stringers and orange wall rock alteration in which Co mineralization was noted in the core. This style of wall rock alteration was noted in the surface mapping and some of the earlier holes of the program and probably is representative of the vein mined underground at Roy.

When reviewing the entire suite of elements returned from the multielement analyses, it was noted that there appears to be a genetic relationship between elevated Co- Cu- Ag values and above background values of In, P, Sb, Se and Te. Therefore, anomalous values of these elements may provide a useful guideline for identifying the vein zones in sections where the vein is weak.

Cross sections are attached as Appendix 6.

DDH	From (m)	To (m)	Length (m)	ALS Sample	Ag ppm	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Co %	Cu %
ELK18001	26.42	26.56	0.14	9902	15.3	>10000	7820	2550	258	30	3.61	
ELK18001	175.60	175.95	0.35	9981	0.4	1405	675	162.5	3.1	57		
ELK18001	25.91	26.42	0.51	9901	0.44	1390	148	130	7.1	47		
ELK18001	167.47	167.60	0.13	9967	0.11	679	579	57.7	0.7	14		
ELK18001	26.56	27.06	0.50	9904	0.36	645	288	121	13.7	63		
ELR18002	136.25	136.37	0.12	10028	2.12	1425	1370	173	23.2	19		
ELR18005	54.10	54.20	0.10	10456	21.8	2340	>10000	414	31	49		5.11
ELR18005	33.63	33.73	0.10	10436	2.27	1955	579	104.5	9.1	55		
ELR18005	84.54	84.85	0.31	10486	4.73	1845	7190	126	239	42		
ELR18005	35.18	35.83	0.65	10441	2.46	1425	4140	143	66.8	22		
ELR18005	18.26	18.36	0.10	10424	8.69	1140	>10000	134	722	71		1.16
ELR18005	36.70	36.80	0.10	10445	207	147	385	51.4	5.3	70		
ELR18006	47.30	47.45	0.15	10897	0.89	865	1175	75.7	115	66		
ELR18006	55.60	55.83	0.23	10908	3.97	677	>10000	108	42.4	83		2.93
ELR18012	21.00	21.45	0.45	10655	7.67	8490	2740	849	38.3	34		
ELR18012	37.35	37.45	0.10	10670	3.51	3380	90.6	608	81.8	57		
ELR18012	29.40	29.55	0.15	10663	2.65	1880	136	264	53.4	35		
ELR18012	66.75	67.04	0.29	10694	2.99	1600	8960	86.4	23.7	50		
ELR18012	46.30	46.48	0.18	10684	2.26	1290	2510	238	22.9	54		

ELR18013	38.36	39.00	0.64	10741	5.02	9370	75.7	976	72.2	16		
ELR18013	39.00	39.52	0.52	10742	3.73	5560	416	625	72.1	39		
ELR18013	37.86	38.36	0.50	10740	0.76	2740	32.1	227	14.8	46		
ELR18013	39.52	40.20	0.68	10744	0.25	779	131	119.5	5	49		
ELR18014	29.85	30.08	0.23	10801	2.45	4430	645	396	31.9	72		
ELR18014	106.48	106.59	0.11	10857	2.82	2920	1575	508	18.4	76		
ELR18014	54.25	54.75	0.50	10816	1.79	1090	58.4	211	39.9	38		
ELR18014	57.73	58.08	0.35	10823	1.45	996	659	152	24.8	24		
ELR18014	63.59	63.85	0.26	10833	2.39	978	165.5	218	48.2	51		

Table 3. Summarized assay results from the 2018 Roy (Sunvest) Property drilling.

3.5 RECOMMENDATIONS

- 1) That the historic data and underground level plans that have been compiled into a 3-D model incorporate recent drill results to aid in interpretation of the geometry of the vein system;
- 2) Stripping/ trenching around the projected surface expression of the main vein and new E–W veins/ structures, particularly the junction of the two vein zones followed by washing, detailed mapping, channel sampling;
- 3) Reinterpretation of the LiDAR, IP and mag surveys looking for evidence of E-W structures/ veining; try to relate the current mineralized zones intersected in the drilling to the IP anomalies;
- 4) Review the LiDAR survey data to locate any historic features on the Roy and Little Otisse properties that were not visited during the current prospecting and mapping program that may aid in the interpretation/ explanation of the anomalous Co values from the drilling;
- 5) Map the property on the existing IP grid- re establish the IP grid;
- 6) The best value was intersected in the most northerly hole (ELR18-01), therefore, continue drilling a series of shallow holes to track the main zone to the north;
- 7) Check the projected surface expression of the high grade silver and anomalous cobalt values intersected in the drilling on the Little Otisse; this may require follow up stripping, washing, detailed mapping and channel sampling to locate them on surface; try to relate them to the IP anomalies;
- 8) Add additional holes around the Little Otisse to follow up on the values obtained in the drilling and other veins/ structures uncovered by the stripping, washing, detailed mapping and channel sampling.
- 9) Continue researching the possible relationship of above background values of In, P, Sb, Se and Te with anomalous Co/ Ag/ Cu values with respect to other project areas.

Recommendation	Activity	Time (days)	Unit Cost	Net Cost	Total Cost
1) Compilation/ 3-D model	modelling	8	\$600.00	\$4,800.00	\$4,800.00
2/ 7) Stripping Program Roy & Little Otisse	excavator	10	\$1,500.00	\$15,000.00	
	washing	10	\$500.00	\$5,000.00	
	supervision	8	\$600.00	\$4,800.00	
	mapping	8	\$1,200.00	\$9,600.00	
	hotel/ meals	30	\$300.00	\$9,000.00	
	travel	30	\$20.00	\$600.00	
	mob/ demob	2	\$1,000.00	\$2,000.00	
	report/ maps	10	\$700.00	\$7,000.00	\$53,000.00
3) Reinterpret Geophysics	review	3	\$600.00	\$1,800.00	\$1,800.00
4) LiDAR	review	1	\$600.00	\$600.00	
	field work	2	\$1,200.00	\$2,400.00	
	travel	2	\$160.00	\$320.00	\$3,320.00
5) Mapping	field work	10	\$800.00	\$8,000.00	
	hotel/ meals	10	\$300.00	\$3,000.00	
	travel	5	\$20.00	\$100.00	
	report/ maps	10	\$700.00	\$7,000.00	\$18,100.00
6 & 8) Diamond drilling	drill costs (all in)	1500	\$200.00	\$300,000.00	\$300,000.00
Research In, P, Sb, Se Te relationship with Co	Review/ research	3	\$600.00	\$1,800.00	\$1,800.00
TOTAL COST					\$ 382, 820

Table 4. Expected cost of work for recommendations.

4.0 REFERENCES

- MacVeigh, E.L. (1964). Property report on Tormont Mines (little Otisse) property, Farr Twp; Kirkland Lake MNDM assessment file CO-929;
- MacKean, B. E. (1968). Geology of the Elk Lake Area, District of Timiskaming, Ontario Department of Mines, Geological Report 62, 80p (incl. Maps 2150, 2151, 2152);
- Sergiades, A. O. (1968). Silver Cobalt Calcite Vein Deposits of Ontario; Ontario Department of Mines, Mineral Resources Circular No. 10, 498p;
- Pyke, D.R., Ayers, L.D., & Innes, D.G. (1973). Timmins, Kirkland Lake Geological Compilation Series; ODM Map 2205;
- Chartre, D. & Dufresne, R. (1997). OPAP reports (OP97-048 & OP97-047) Final Submission (former Roy Silver ML, Farr Property); 41P16SW2001/ 2.18274/ CO-2377;
- Komarechka, RG. (1998). Lake Superior Resources/ Little Otisse; Trenching and Stripping Report, claims 1217593, 1217594, and 1217595, Farr Twp; 41P16SW2004/ 2.18674/ CO-2378;
- Meyer, G., Cosec, M., Grabowski, G.P.B., Guindon, D.L., Buckley, S. and Messier, C. (1997). Report of Activities 1997, Resident Geologist Program, Kirkland Lake Regional Resident Geologist's Report: Kirkland Lake–Sudbury District; Ontario Geological Survey, Open File Report 5973, 82p.
- Guindon, D.L., Grabowski, G.P.B., Meyer, G., and Picotte, M.C.M. (2007). Report of Activities 2006, Resident Geologist Program, Kirkland Lake Regional Resident Geologist Report: Kirkland Lake District; Ontario Geological Survey, Open File Report 6204, 42p.
- Ploeger, C.J. (2018). Battery Mineral Resources Ltd., Elk Lake Project_ Roy Property Induced Polarization and Magnetometer Surveys, Company Report.
- (Weiss, T. (2018). Battery Mineral Resources Ltd (Weis, T); Farr Twp; geophysical interpretation; private company report.

5.0 QUALIFICATIONS

CERTIFICATE OF QUALIFICATION AND CONSENT

I, Frank Rainer Ploeger of the town of Virginiatown, Province of Ontario, do hereby certify:

- 1) That I am a Consulting Geologist and reside at 21 Waite Avenue, Virginiatown, Ontario, P0K 1X0.
- 2) That I graduated from Queen's University at Kingston, Ontario with a Bachelor of Applied Science degree in 1973; and, that I completed 2 years of an MSc program at McMaster University in Hamilton, Ontario (1980- 1982).
- 3) That I am a **member in good standing of the Association of Geoscientists of Ontario (#479), the Association of Professional Engineers and Geoscientists of Saskatchewan (#10852, non- practicing), the Geological Association of Canada, the Prospectors and Developers Association, and the Northern Prospectors Association.** I have received a temporary permit (#2153) to practice in Quebec from the Ordre des geologues du Quebec pending acceptance by the Office quebequois de la langue francaise (OQLF).
- 4) That I have practiced my profession as a mineral exploration and mine geologist for a period of about 45 years.
- 5) This document is based on information various public documents and my personal observations during several visits to the property.

Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.

- 6) I have no interest, either directly or indirectly, in the subject property or client company.

7) *My written permission is required for the release of any summary or excerpt.*

Frank R. Ploeger

Virginiatown, Ontario, August 27, 2019

CERTIFICATE OF QUALIFICATION AND CONSENT

I, Peter James Doyle of the city of Richmond Hill, Province of Ontario,

do hereby certify:

- 1) That I am an Exploration Geologist and reside at 79 Naughton Drive, Richmond Hill Ontario, L4C8B2.
- 2) That I graduated from Laurentian University at Sudbury, Ontario with an Honours Bachelor of Science degree in 1980.
- 3) That I am a **Fellow in good standing of the Australian Institute of Mining & Metallurgy (AUSIMM # 208850) as well as a member in good standing of Geological Association of Canada (GAC F0146); Canadian Institute of Mining & Metallurgy (CIMM # 91602); Prospectors & Developers Association of Canada (PDAC # 707); Society for Geology Applied to Mineral Deposits (SGA# 1333-08) and Society of Economic Geologists (SEG # 216720).**
- 4) That I have practiced my profession in various roles as a Mineral Exploration Geologist, Exploration Manager and Vice President of Exploration for a period of about 39 years principally within Canada & Australia as well as globally in United States of America, Mexico, Indonesia, China, Mongolia, Brazil, Argentina and Guyana.
- 5) This document is based on information various public documents and my personal observations during visits to the property during the exploration program.

Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.

6) I am currently employed full time as Exploration Manager – Canada for Battery Mineral Resources Limited and was directly involved in the planning and execution of the exploration program documented in this report.

7) *My written permission is required for the release of any summary or excerpt.*

Peter J. Doyle

Richmond Hill, Ontario, August 27, 2019

6.0 INSTRUMENT SPECIFICATIONS

Trimble GeoXT¹



STANDARD FEATURES

System

- Windows Mobile 6.1 (Classic edition)
- VGA display (480 x 640), sunlight-readable color touch screen
- Integrated Bluetooth 1.2 wireless technology
- Integrated 802.11b/g wireless LAN
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable Li-ion battery
- Marvell 520 MHz XScale processor
- 128 MB RAM
- 1 GB non-volatile Flash data storage
- Sealed SD/SDHC card slot
- Integrated speaker and microphone

GPS

¹ Trimble instrument information available from:
<https://seafloorsystems.com/support/brochures/trimble-docs/43-trimble-geoxt-handheld-gps-receiver/file>

-
- Integrated high-performance GPS/SBAS1 receiver and L1 antenna
 - Submeter real-time or 50 cm postprocessed accuracy
 - RTCM and CMR real-time correction support
 - TSIP and NMEA protocol support
 - EVEREST multipath rejection technology

Standard Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft Office Mobile
- Transcriber (handwriting recognition)

Standard Accessories

- Support module
- AC Power supply with International adapter kit
- USB data cable
- Stylus (x2)
- Screen protectors (2-pack)
- Quick Start Guide
- Getting Started CD
- Hand strap
- Pouch

OPTIONAL FEATURES

Optional Software

- Terra Sync software
- Trimble GPS correct extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst™ extension for ESRI ArcGIS Desktop software
- TrimPix™ Pro system

Optional Accessories

- TDL 3G cellular modem accessory
- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor
- Null modem cable
- Backpack kit
- Hard carry case
- Tempest™ antenna
- External patch antenna

- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- 2 meter range pole
- Range pole bracket
- Geo Beacon receiver
- Anti-glare screen protectors (2-pack)

TECHNICAL SPECIFICATIONS

Physical

Size 21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)
Weight 0.80 kg (1.76 lbs) with battery
Processor 520 MHz Marvell PXA-270 XScale processor
Memory 128 MB RAM and 1 GB internal Flash storage
Battery Internal 7500 mAh lithium-ion
27.8 Watt-hours, rechargeable in unit

Power usage

Low (no GPS or backlight) 1.8 Watts
Normal (with GPS and backlight³) 2.6 Watts
High (with GPS, backlight³, Bluetooth, and wireless LAN)⁴ 3.7 Watts

Environmental

Operating temperature -20 °C to +60 °C (-4 °F to 140 °F)
Storage temperature -30 °C to +70 °C (-22 °F to 158 °F)
Casing Dust-proof and resistant to heavy wind-driven rain per IP 65 standard
Slip-resistant grip, shock and vibration resistant
Drop 1.2 m (4 ft) MIL-STD-810F, Method 516.5, Procedure IV

Input/Output

Expansion SD card slot (SD or SDHC storage cards)
Display 8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16-bit (65,536) colors
LED back light
Interface Touch screen, 10 hardware control keys, power status LED
Audio system events, warnings, and notifications
Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio Microphone and speaker, record and playback utilities
I/O USB 1.1 client via support module
Serial via optional 9-pin RS-232 power/serial clip adaptor
Radios⁵ Bluetooth 1.2, Wireless LAN 802.11b/g

GPS

Channels	14 (12 L1 code and carrier, 2 SBAS)
Integrated real-time	SBAS ¹ (dual-channel tracking)
Update rate	1 Hz
Time to first fix	30 seconds (typical)
Protocols	
Data output	TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)
Real-time corrections	RTCM 2.x, RTCM 3.0, CMR, CMR+

Accuracy (HRMS)⁶ after differential correction

Code postprocessed	50 cm
Carrier postprocessed ⁷	
With 10 minutes tracking satellites.....	20 cm
With 20 minutes tracking satellites.....	10 cm
With 45 minutes tracking satellites	1 cm
Real-time (SBAS ¹ or external correction source)	Submeter

- 1 SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.
- 2 Power/serial clip also required.
- 3 With backlight at default setting (50% brightness).
- 4 Power draw will vary depending on radio usage.
- 5 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2008 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.
- 6 Horizontal Root Mean Squared accuracy, 1-sigma (68%). Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.
- 7 Postprocessed carrier accuracy varies with proximity to base station by +2 ppm. 45 minute carrier capability applies only to the GPS Pathfinder Office software and is limited to 10km from the base station.

7.0 APPENDIX

- Appendix 1:** Mining Cells Information
- Appendix 2:** Drill Hole Metadata
- Appendix 3:** Text Logs
- Appendix 4:** Assay Certificates of Analysis
- Appendix 5:** Assay Data
- Appendix 6:** Cross Sections

Township	Tenure ID	Legacy Claim ID	Tenure type	Owner
Farr	114335	1214380	Boundary Cell	Sunvest - Dufresne
Farr	161255	1214381	Boundary Cell	Sunvest - Dufresne
Farr	269257	1214380, 1214381	Boundary Cell	Sunvest - Dufresne
Farr	309774	1214381	Boundary Cell	Sunvest - Dufresne
Farr	316674	1214380	Boundary Cell	Sunvest - Dufresne
Farr	329194	1214380, 1214381	Boundary Cell	Sunvest - Dufresne
Farr	107919	4280332	Single Cell	Sunvest - Salo
Farr	125369	4251753, 4280332	Single Cell	Sunvest - Salo
Farr	132469	4280331, 4280598	Boundary Cell	Sunvest - Salo
Farr	136867	4251753, 4280332, 4280333	Boundary Cell	Sunvest - Salo
Farr	145777	4280331, 4280589	Single Cell	Sunvest - Salo
Farr	162806	4280331	Boundary Cell	Sunvest - Salo
Farr	166144	4278515	Boundary Cell	Sunvest - Salo
Farr	178207	4251753, 4280333, 4280598	Boundary Cell	Sunvest - Salo
Farr	178208	4280331, 4280333, 4280589, 4280598	Single Cell	Sunvest - Salo
Farr	182074	4280332	Single Cell	Sunvest - Salo
Farr	188857	4251753, 4280332	Boundary Cell	Sunvest - Salo
Farr	195432	4278515	Boundary Cell	Sunvest - Salo
Farr	212515	4251753, 4280331, 4280598	Boundary Cell	Sunvest - Salo
Farr	222698	4280331	Single Cell	Sunvest - Salo
Farr	247201	4280331	Single Cell	Sunvest - Salo
Farr	256151	4280332	Single Cell	Sunvest - Salo
Farr	264425	4280331, 4280333, 4280589	Boundary Cell	Sunvest - Salo
Farr	285661	4278515, 4280332	Boundary Cell	Sunvest - Salo
Farr	311608	4280332	Boundary Cell	Sunvest - Salo
Farr	325984	4280331	Single Cell	Sunvest - Salo
Farr	332322	4278515	Boundary Cell	Sunvest - Salo
Farr	336498	4280331, 4280589	Boundary Cell	Sunvest - Salo

Hole ID	Proposed ID	Easting (UTM NAD83 Z17N)	Northing (UTM NAD83 Z17N)	Elevation (m)	Azimuth	Dip	Depth (m)	Size	Claim Number	Drilling Start Date	Drilling End Date	Drilling Contractor	Storage	Overburden Thickness (m)	Casing	Cap	Abandoned	Artesian Conditions	Date Logged	Log Author
ELR18001	K	540227	5291981	311	269	-45	201	NQ		21-Nov-18	23-Nov-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.90	Left in place	Metal cap and flag	No	No	27-Nov-18	M. Metcalf/ G. Hamilton
ELR18002	A	540324	5292011	322	263	-45	255	NQ		24-Nov-18	26-Nov-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	4.04	Left in place	Metal cap and flag	No	No	1-Dec-18	M. Metcalf/ G. Hamilton
ELR18003	C	540275	5291984	321	271	-45	177	NQ		26-Nov-18	27-Nov-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.00	Left in place	Metal cap and flag	No	No	1-Dec-18	M. Metcalf/ G. Hamilton
ELR18004	I	540398	5291001	331	265	-45	150	NQ		30-Nov-18	01-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.80	Left in place	Metal cap and flag	No	No	4-Dec-18	M. Metcalf/ G. Hamilton
ELR18005	G	540544	5290882	341	267	-45	276	NQ		04-Dec-18	06-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	4.95	Left in place	Metal cap and flag	No	No	11-Dec-18	G. Hamilton
ELR18006	L	540761	5290399	350	76	-46	123	NQ		11-Dec-18	13-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	4.05	Left in place	Metal cap and flag	No	No	18-Dec-18	J. Edwards
ELR18007	H	540399	5290907	338	271	-44	150	NQ		02-Dec-18	03-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	1.5	Left in place	Metal cap and flag	No	No	7-Dec-18	M. Metcalf/ G. Hamilton
ELR18008	M	540536	5290282	338	271	-45	87	NQ		13-Dec-18	14-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	2.26	Left in place	Metal cap and flag	No	No	18-Dec-18	J. Edwards
ELR18009	D	540331	5291687	350	271	-44	300	NQ		27-Nov-18	30-Nov-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.5	Left in place	Metal cap and flag	No	No	4-Dec-18	M. Metcalf/ G. Hamilton/ J. Edwards
ELR18010	F	540543	5290888	342	86	-45	150	NQ		06-Dec-18	07-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	6.85	Left in place	Metal cap and flag	No	No	12-Dec-18	G. Hamilton/ J. Edwards
ELR18011	J	540252	5290994	328	275	-43	96	NQ		03-Dec-18	04-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	4.81	Left in place	Metal cap and flag	No	No	8-Dec-18	G. Hamilton
ELR18012		540195	5291886	313	310	-44	120	NQ		08-Dec-18	09-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.93	Left in place	Metal cap and flag	No	No	14-Dec-18	J. Edwards
ELR18013		540194	5291887	313	293	-88	186	NQ		09-Dec-18	10-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.00	Left in place	Metal cap and flag	No	No	15-Dec-18	J. Edwards
ELR18014		540204	5291858	312	314	-45	111	NQ		10-Dec-18	11-Dec-18	G4 Forage	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P8K 1L0, Canada	3.95	Left in place	Metal cap and flag	No	No	16-Dec-18	J. Edwards

				Gdl dolerite	D	grey black	mcg	massive	Diabase, medium to dark grey, medium grained (2-4mm), massive, equigranular, weak to moderately magnetic, weak pervasive chloritic alteration and very weak fracture-filling calcite, very finely (<1mm) disseminated pyrite, cut by cm-scale mt-specy-py and carbonate veins, lower contact is sharp ~50 DTCA with dyke rock (aplite?).	massive	chlorite alteration	wk	carbonate alteration	v wk		mt	0.2	he	0.01	py	0.01	vlt	0.01					
ELR18-002	4.04	30.95	26.91																									
				Guu igneous rock (undifferentiated)	M	black orange	fg	massive	Dyke rock, potentially aplite (orange-pink colouration), fine-grained, moderately strongly magnetic, massive with no chilled margins, contains ~15 cm wide block of diabase, moderate chloritic alteration associated with margins, XRF displays elevated K in wall rock and high Ca in dyke, minor disseminated pyrite and magnetite, no veins within dyke, lower contact is sharp ~50 DTCA.	massive	chlorite alteration	mod				mt	0.5	py		0.5								
ELR18-002	30.95	31.55	0.61																									
				Gdl dolerite	D	grey black	mcg	massive	Same as described from 4.04-30.95m without spec. hem. Section is cut by few cm-scale carbonate-/epidote veins with 10cm wide zone of weak to moderate epidote alteration @68.5m. Unit is light grey from 78.6 to 82.9m (possibly bleaching). Carbonate breccia vein (1-2cm wide) occurs @41.95m and 1.5cm wide mt-py vein occurs @51.7m, and 1cm wide carb-epidote vein @71.63m. Lower contact is gradational marked by the appearance of increased chloritization.	massive	chlorite alteration	wk mod	epidote	wk	carbonate alteration	wk	py	0.1	mt		0.2							
ELR18-002	31.55	83.28	51.73																									
				Gdl dolerite	D	black grey	mcg	massive	Diabase, dark grey to black, medium-coarse grained (2-4mm), massive, equigranular, weak to moderately magnetic with strong localised patches, pervasive chloritic slickensides, moderate-strong pervasive and fracture-filling chloritic alteration, weak carbonate alteration, and weak fracture-filling epidote, trace very finely (<1mm) disseminated pyrite, cut by sub-cm-scale carbonate-chlorite-epidote veins and, lower contact is sharp ~50 DTCA marked by the transition into rubbly diabase.	slickensided	chlorite alteration	mod str	epidote	wk	carbonate alteration	wk	py	0.01	mt		0.25		vcb	0.1				
ELR18-002	83.28	88.31	5.03																									
				Fault Breccia	D	black grey	mcg	fragmental or as fragments	Brittly deformed diabase as described from 83.28-88.31m. Cut by 2 sub-cm-scale epidote veinlets. Lower contact is sharp and undulatory ~50 DTCA marked by the appearance of fault gouge.	cataclastic	chlorite alteration	mod str	epidote	wk	carbonate alteration	wk	py	0.01	mt		0.25		vlt	0.1				
ELR18-002	88.31	91.67	3.36																									
ELR18-002	91.67	91.83	0.16	Fault	L	green grey	vfg	sorting poor	Fault gouge (~16 cm wide), light green grey, very fine grained to medium grained, poorly sorted, lower contact is sharp ~50 DTCA marked by the transition back into diabase.	tectonic																		
ELR18-002	91.83	98.89	7.06	Gdl dolerite	D	black grey	mcg	massive	Same as described from 83.28-88.31m. Carbonate veins are slightly more abundant. Lower contact is sharp at fault (40 DTCA).		chlorite alteration	mod str	epidote	wk	carbonate alteration	wk	py	0.01	mt		0.25		vlt	0.1				
ELR18-002	98.89	98.91	0.02	Fault	L	green grey	vfg	sorting poor	Same as fault at 91.67, but narrower (~1.5cm gouge). Lower contact is sharp at 40 DTCA	tectonic																		
ELR18-002	98.91	116.73	17.82	Gdl dolerite	D	black grey	mcg	massive	Same as described from 83.28-88.31m. Carbonate veins are slightly more abundant and unit is cut by hem-mt-py vein @ 102.15m ~DTCA. Lower contact is gradational into brecciated host before fault		chlorite alteration	mod str	epidote	wk	carbonate alteration	wk	py	0.01	mt		0.25		vlt	0.1				
ELR18-002	116.73	117.64	0.91	Fault Breccia	D	black grey	mcg	fragmental or as fragments	Same as 88.31-91.67, but no epidote veinlets. Lower contact is sharp at fault (20 DTCA).	cataclastic	chlorite alteration	mod str	carbonate alteration	wk		py	0.01	mt		0.25								
ELR18-002	116.73	117.65	0.93	Fault	L	green grey	vfg	sorting poor	Same as fault at 91.67, but narrower (1cm gouge). Lower contact is sharp at 20 DTCA.	tectonic																		
ELR18-002	117.65	120	2.35	Fault Breccia	D	black grey	mcg	fragmental or as fragments	Same as 88.31-91.67, but no epidote veinlets. Lower contact is sharp at fault (20 DTCA).	cataclastic	chlorite alteration	mod str	carbonate alteration	v wk		py	0.01	mt		0.25								
ELR18-002	120	124.4	4.41	Gdl dolerite	D	black grey	mcg	massive	Same as described from 83.28-88.31m. Lower contact is sharp at fault (40 DTCA).		chlorite alteration	mod str	epidote	wk	carbonate alteration	v wk	py	0.01	mt		0.25		vlt	0.1				
ELR18-002	124.4	124.45	0.05	Fault	L	green grey	vfg	sorting poor	Same as fault at 91.67, but narrower (~1.5 cm gouge). Lower contact is sharp at 40 DTCA.	tectonic																		
ELR18-002	124.45	126.15	1.7	Fault Breccia	D	black grey	mcg	fragmental or as fragments	Same as 88.31-91.67, but less intense chloritization and no epidote veinlets. Lower contact is sharp at fault (20 DTCA).	cataclastic	chlorite alteration	mod	carbonate alteration	v wk		py	0.01	mt		0.25								
ELR18-002	126.15	136	9.85	Gdl dolerite	D	black grey	mcg	massive	Same as 31.55-83.28m, but no obvious slickensides. Carbonate-magnetite-chlorite-epidote? Vein Lower contact sharp at 60 DTCA.	massive	chlorite alteration	mod str	epidote	wk	carbonate alteration	wk	py	0.01	mt		0.25							
ELR18-002	136	136.23	0.23	Guu igneous rock (undifferentiated)	M	grey pink	fg	massive	Dyke rock potentially aplite, grey-pink, fine-grained, non-magnetic, massive, contains ~12cm wide block of potassic altered diabase (~60 DTCA), margins displays mm-scale carbonate veins containing splashes of chalcopyrite, lower contact is sharp ~80 DTCA.	massive	carbonate alteration	wk mod				cp				0.1								
ELR18-002	136.23	136.36	0.14	Carbonate Vein	M	orange White	fg	brecciated	Carbonate vein-Co-bearing (likely iron carbonate), orange-white, fine grained, non-magnetic, pink phase is brecciated with later carbonate infill, contains narrow disseminations of chalcopyrite and Co-mineral likely cobaltite, lower contact is sharp ~50 DTCA.	massive	carbonate alteration	v str				cp	0.1	co		0.05								
ELR18-002	136.36	184	47.64	Gdl dolerite	D	black grey	mcg	massive	Same as 31.55-83.28m. Weakly magnetic (locally moderate). Distal offset (~1 cm) of fracture at 157.18m, sinistral offset (2cm) of carbonate-pyrite-epidote vein at 175.35; slickensides common along chlorite sigs. Increased epidote alteration (weakly pervasive and veinlets) after 175 m. At 171.3 core is cut by a 3cm Mt-Co vein with blebby pyrite, at 175.35 m there is a 2cm wide carbonate-pyrite-epidote vein (offset) and at 185.35m there is a 1-2 cm veinlet cutting through an epidote veinlet (the composition is unknown: mineral is very soft and and reflective (baise coloured)) likely anhydrite (non-reactive to acid). Lower contact is gradational, marked by increased fracturing caused by fault.	slickensided	chlorite alteration	wk mod	epidote	wk mod	carbonate alteration	wk	py	0.01	mt		0.1		vcb	0.1	vlt	0.1		
ELR18-002	184	189.13	5.13	Fault Breccia	M	grey	fmg	fragmental or as fragments	Brittly deformed diabase. Medium grey (with red hematite staining). Fine-medium grained. Highly fragmental with weak pervasive chlorite and epidote alteration. Trace disseminated pyrite and cut by epidote and carbonate veinlets. At 185.10-185.25 a Cpy-bearing carbonate vein displays elevated Co ~550 ppm on XRF and 186.7m there's a 1cm wide carbonate-pyrite vein. Lower contact gradational.							cp			0.01	co		0.001						
ELR18-002	189.13	189.55	0.43	Fault	M	grey red	mcg	sorting poor	Fault gouge. Approximately 4 cm wide (shallowly dipping so cannot see full width), red due to hematite staining. Fine to coarse grains - poorly sorted, moderate carbonate alteration. Lower contact is sharp at 20 DTCA.	tectonic	carbonate alteration	wk mod	chlorite alteration	wk														
ELR18-002	189.55	194.6	5.05	Gdl dolerite	D	black grey	fmg	massive	Same as 136.34-184. Finer grained. Lower contact not sharp.	massive	chlorite alteration	wk mod	epidote	wk mod	carbonate alteration	wk	py	0.01	mt		0.1		vcb	0.1	vlt	0.1		
ELR18-002	194.6	255	60.4	Ssl siltstone	D	black grey	fmg	massive	Sandy siltstone, matrix supported. Dark grey, fine to medium grained, up to 25% rounded granitic clasts (up to 5 cm), variable muddy sections. Massive, weak fracture filling carbonate. Few fractures (201.21m) contain higher concentrations pyrite and chalcopyrite, but majority of mineralization is trace finely disseminated pyrite. EDH.	massive	carbonate alteration					py	0.01	cp		0.01		vcb	0.01					
ELR18-003	0	3	3	Casing																								
ELR18-003	3	9.12	6.12	Gdl dolerite	M	grey black	mcg	massive	Diabase, grey black, medium to coarse grained (2 to 3 mm), massive, equigranular. Weakly magnetic, locally becoming moderately magnetic. Weak pervasive chlorite alteration (and stringers), epidote alteration along fractures and occurring as veinlets, fracture filling and vein carbonate (predominantly narrow mm scale, but locally wider - listed under veining). Trace disseminated, fine grained sulphides (pyrite, minor chalc). Cm scale carbonate-chalcopyrite (pyrite?) veins at 7.2 and 7.83 m. Lower contact sharp at 65 DTCA.	massive	chlorite alteration	wk	carbonate alteration		epidote	wk	py	0.01	cp		0.1	mt		0.1	vlt	0.1	vcb	0.1
ELR18-003	9.12	9.24	0.13	Carbonate vein	L	white cream	mcg	massive	Carbonate vein, trace pyrite along margins. Sharp lower contact at 65 DTCA	massive							py			0.01								
ELR18-003	3.24	21.68	18.44	Gdl dolerite	M	grey black	mcg	massive	Diabase-Same as 3.00-9.12m. Carbonate-pyrite veins at 12.07 and 17.5 (brecciated). Sharp lower contact at 65 DTCA.	massive	chlorite alteration	wk	carbonate alteration		epidote	wk	py	0.01	cp		0.1	mt		0.1	vlt	0.1	vcb	0.1
ELR18-003	21.68	21.78	0.11	Carbonate vein	L	white cream	mcg	massive	Carbonate vein, trace pyrite, chloritic margins. Sharp contact (brecciated) at 60 DTCA.	brecciated							py			0.01								

ELR18-003	21.78	108.76	86.98	Gdl dolerite	M	grey black	mcg	massive	Diabase-Same as 3.00-9.12m. ~15mm pyrite vein - minor carbonate (aplite- chunky pink mineral along lower contact) at 33.85, cm-scale aplite (pink) trace pyrite veins at 35.67 and 35.95m. mm scale magnetite-pyrite veins at 38.12, 40.33 and 40.61. ~40mm carbonate-chalco-galena veins at 47.72m with very coarse chalc and galena, ~10mm carbonate-qtz-epidote veins at 55.9m (pyrite?) and 60.28m, carbonate-pyrite vein at 56.34m (40mm wide), 80.42, 80.55, 80.72, 81.53 and 85.1 (displays elevated zinc), at 102m there is an ~15cm wide Ch-Mt-Qtz-Py vein, at 106.62 m a 4mm Mt-Py vein and at 108.12 a 10mm aplite (pink) vein (no obvious mineralization). 10mm spec-hematite vein at 70.43m. Sharp lower contact at 25 DTCA.	massive	chlorite alteration	wk	carbonate alteration	epidote	wk	py	0.01	cp	0.1	mt	0.1	vft	0.1	vcb	0.1	
ELR18-003	108.76	109.13	0.37	Gsu igneous rock (undifferentiated)	M	pink grey	mcg	massive	Dyke rock, pinky grey (aplite?), medium to coarse grained, weakly magnetic, massive. Weak to moderate chlorite alteration, trace disseminated sulphides. Lower contact is obscured by rubby core.	massive	chlorite alteration	wk mod			py	0.01										
ELR18-003	109.13	133.09	23.96	Gdl dolerite	M	grey black	mcg	massive	Diabase-Same as 3.00-9.12m. At 114.5m there is a 15mm carbonate-pyrite-magnetite vein (minor epidote), at 117.98 a magnetite-pyrite vein, and at 123.81 there is a 6cm wide Ch-Py-Qtz vein with ~12cm chlorite alteration halo on either side. Lower contact gradational, marked by significant increase in chlorite alteration.	massive	chlorite alteration	wk	carbonate alteration	epidote	wk	py	0.01	cp	0.1	mt	0.1	vft	0.1	vcb	0.1	
ELR18-003	133.09	134.11	1.03	Gdl dolerite	M	grey black	mcg	massive	Diabase- same as 3.00-9.12m, but intense chloritization of pyroxenes. Lower contact sharp at 55 DTCA.	massive	chlorite alteration	mod str			py	0.01	cp	0.1	mt	0.1	vft	0.1	vcb	0.1		
ELR18-003	134.11	134.13	0.02	Fault	M	green grey	mg	sorting poor	Fault gouge (~1cm wide)- Pyrite along edge. Poorly sorted. Lower contact sharp at 55 DTCA.	tectonic	chlorite alteration	mod	carbonate alteration	wk	py	0.01										
ELR18-003	134.13	135.22	1.09	Gdl dolerite	M	grey black	mcg	massive	Diabase- same as 133.09-134.11. Lower contact gradational, marked by increased fragmenting.	massive	chlorite alteration	mod str	carbonate alteration	wk	py	0.01	cp	0.1	mt	0.1	vft	0.1				
ELR18-003	135.22	137.84	2.62	Fault Breccia	M	grey black	mcg	massive	Brittily deformed diabase as described above (intense chlorite alteration). Trace finely disseminated sulphides (probably pyrite). Lower contact gradational, marked by drop in abundance of fracturing (less fragmental).	cataclastic	chlorite alteration	mod str	carbonate alteration	wk	py	0.01	cp	0.1	mt	0.1	vft	0.1				
ELR18-003	137.84	142.48	4.64	Gdl dolerite	M	grey black	mcg	massive	Diabase- same as 133.09-134.11. Several healed, chloritized (minor carbonate) slips. At 139.89m there is a 5mm vein of pyrite-carbonate-chlorite. Lower contact sharp at 55 DTCA.	massive	chlorite alteration	mod str	carbonate alteration	wk	py	0.01	cp	0.1	mt	0.1	vft	0.1				
ELR18-003	142.48	142.5	0.03	Fault	M	green grey	mg	sorting poor	Fault gouge (~1cm wide), mostly healed with chalcopryrite and pyrite mineralization throughout. Lower contact sharp at 60 DTCA.	tectonic	chlorite alteration	mod	carbonate alteration	wk	cp	0.1										
ELR18-003	142.5	168.96	26.46	Gdl dolerite	M	grey black	mcg	massive	Diabase- same as 133.09-134.11. Chlorite slips. At 147.79m there is a 1cm magnetite-pyrite vein. Lower contact gradational, marked by a significant decrease in chlorite alteration.	massive	chlorite alteration	mod str	carbonate alteration	wk	py	0.01										
ELR18-003	168.96	177	8.04	Gdl dolerite	D	grey black	mg	massive	Diabase- dark grey black, medium grained (1-2mm), more fractured than previous diabase intervals, still massive, weak pervasive chlorite alteration, weakly magnetic (some moderately magnetic patches). Trace disseminated pyrite. 2cm aplite (fine grained, pink, non magnetic) vein at 175.45. ~1cm wide chalcopryrite-magnetite vein at 176.95m. End of hole.	massive	chlorite alteration	wk		py	0.01	cp	0.01	mt	0.01							
ELR18-004	0	3.8	3.8	Casing																						
ELR18-004	3.8	28	24.2	Gdl dolerite	D	black grey	mg	massive	Diabase, dark grey, medium grained, moderate magnetism, massive, rubby 9-15 m. Appears to exhibit weakly developed foliation defined by alignment of plagioclase ranging from 40-60 DTCA. Moderately pervasive pink potassic alteration (confirmed by XRF), distinguishes unit from diabase beneath; weak pervasive chloritic alteration. Trace disseminated pyrite (~1mm grain size) with minor blebby pyrite along fractures. Crosscut by several sub-cm-scale aplitic veinlets and quartz veinlets and a few cm scale epidote veinlets. Lower contact is gradational defined by significant reduction of pink, potassic alteration.	weakly foliated	potassic	mod	chlorite alteration	wk	epidote alteration	wk	py	0.1	mt	0.2		vcb	0.3	vqt	0.5	
ELR18-004	28	61	33	Gdl dolerite	D	black grey	mg	massive	Same as described from 3.80-28m. Weakly fissile chloritic slip occurs from 38.20-38.24m. Potassic alteration grades from moderately developed to weak trace. ~2 cm wide Ch-Py-Qz vein occurs @60.05 ~35 DTCA. Lower contact is sharp ~95 DTCA marked by the transition into a narrow zone of fault gouge.	weakly foliated	potassic	v wk	chlorite alteration	wk	epidote alteration	wk	py	0.1	mt	0.2		vcb	0.3	vqt	0.5	
ELR18-004	61	61.05	0.05	Fault	D	grey	fg	fragmental or as fragments	Fault gouge (2-3mm), dark grey, fine grained, weakly fragmented and bound by chloritic margins, lower contact is sharp ~90 DTCA.																	
ELR18-004	61.05	150	88.95	Gdl dolerite	D	black grey	mg	massive	Same as described from 28.00-61m. Undulating, 3-4 cm wide Ch-Py vein occurs from 94.95-95.10m. Weakly fissile chloritic slip occurs from 125.36-125.40m.	weakly foliated	potassic	v wk	chlorite alteration	wk	epidote alteration	wk	py	0.1	mt	0.2						
ELR18-005	0	4.95	4.95	Casing																						
ELR18-005	4.95	35.22	30.27	Gdl dolerite	D	black grey	mg	massive	Diabase, dark grey, medium grained, weakly to moderately magnetic, massive, equigranular, abundant chlorite filled fractures, moderate epidote, weak-moderate carbonate, and weak-moderate chlorite alteration, disseminated cp and py occur along cb veins and mt stringers, ep veinlets cut unit (1mm-2cm), cb veins (1mm-30cm), Co-bearing cb vein (2-5cm wide); spec-hem-csp-co-bearing cb vein (1-30cm true width) 35.22-35.80m ~40 DTCA; Ag-bearing cb vein (~1cm wide) 36.75-36.76m, and chlorite veinlets (1-5mm), lower contact is sharp ~80 DTCA.	massive	epidote alteration	mod	carbonate alteration	wk mod	chlorite alteration	wk mod	cp	0.05	mt	0.25	py	0.1	vcb	0.1	vft	0.2
ELR18-005	35.22	35.8	0.58	Carbonate Vein	L	white grey	cg	vuggy	Carbonate vein, white-grey, coarse grained, displays unidirectional solidification textures along upper contact with euhedral quartz, dominantly cb with spec. hem, csp, py, and dull, brown-grey, pseudocubic-hexagonal Co-mineral disseminated throughout associated with chlorite and pyrite, lower contact is sharp ~45 DTCA.	carbonate alteration	v str	chlorite alteration	wk mod	co	0.005	cp	0.1	he	0.25	vcb	90					
ELR18-005	35.8	49.77	13.97	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. Unit is cut by cm-scale Po-chl veins that are more abundant from 51-54m. Lower contact is sharp ~80 DTCA.	massive	epidote alteration	mod	carbonate alteration	wk mod	chlorite alteration	wk mod	cp	0.05	mt	0.25	py	0.1	vcb	0.1	vft	0.2
ELR18-005	49.77	49.9	0.13	Gsu igneous rock (undifferentiated)	D	pink brown	mg	massive	Dyke rock(?) (possibly aplitic or alteration), pink-brown, medium grained, weakly magnetic, massive, equigranular, no visible chilled margins, weak chlorite and carbonate alteration, minor sub-cm-scale carb and chl veinlets, lower contact is gradational, marked by the transition back into diabase.	massive	carbonate alteration	wk	chlorite alteration	wk mod							vcb	0.01				
ELR18-005	49.9	77.22	27.32	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. Unit is cut by cm-scale Po-chl veins that are more abundant from 51-54m. Rubby zones occur @ 52.57m, 60-62m, 67-72,74-77m with well developed silicenses; appears to be high strain zone. Csp-bearing cb-ep vein (16cm) @58.39-58.55 ~80 DTCA; Ccp-bearing cb vein (4.5cm)72.35-72.65 ~40 DTCA. Lower contact is sharp ~80 DTCA.	massive	epidote alteration	mod	carbonate alteration	wk mod	chlorite alteration	wk mod	cp	0.05	mt	0.25	py	0.1	vcb	0.1	vft	0.2
ELR18-005	77.22	77.29	0.08	Fault	M	grey	fg	fragmental or as fragments	Fault gouge(2cm), medium grey, fine grained, fragmental with wall rock fragments within clay gouge, weak-moderate chlorite and carbonate alteration, carbonate veinlets occur parallel to slip plane and lower contact ~60 DTCA.	faulted/fault	carbonate alteration	wk mod	chlorite alteration	wk mod							vcb	0.01	vft	0.01		

ELR18-005	77.29	156.76	79.47	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. 1-2cm wide chlorite vein with wall rock occurs @85.26m; possibly healed fault breccia. Slip plane occurs from 93.63-93.73m with fragmented dbase and muddy textures; possibly fault; chlorite slip and muddy textures @11.25m; muddy textures and chlorite slip occur @149.10m; zone of increased alteration occurs from 130.70-134m in association with pervasive fracturing. Ccp-bearing cb vein (~15 20cm) occurs @84.6-84.8m. Cb-ch vein (3cm) occurs with epidote alteration halo and finely disseminated py from 97.4-97.5m ~75 DTCA. High vein density zone occurs from 110-113m with ~10 cb veins including @111.13cm wide @112.24m @121.66m @141.50-40 DTCA. 1.5 cm wide cb vein occurs @130.8m with a pink alteration halo (potassic?) ~10 cm on either side; another 2-3 cm wide cb vein @132m exhibits the same alteration halo. Lower contact is sharp ~55 DTCA marked by transition into fault gouge.	massive	epidote alteration	mod	carbonate alteration	wk mod	chlorite alteration	wk mod	cp	0.02 mt	0.25 py	0.1 vcb	0.2 vft	0.2
ELR18-005	156.76	156.9	0.15	Fault	M	grey	fg	fragmental or as fragments	Fault gouge(2cm), medium grey, fine grained, fragmental with wall rock fragments within clay gouge; ~10 cm of chlorite-healed fault breccia occurs after gouge, weak-moderate chlorite and carbonate alteration, lower contact is sharp ~55 DTCA.	cataclastic	carbonate alteration	wk mod	chlorite alteration	wk mod								
ELR18-005	156.9	163.58	6.69	Fault Breccia	D	black grey	mg	fragmental or as fragments	Diabase, black grey with red patches, medium grained, massive; equigranular, unit is rubbly and displays strong brittle deformation with the presence of healed fault breccia and muddy textures, moderate-strong chlorite with moderate carbonate, moderate-strong iron staining or potassic alteration?; increased carbonate veining, iron staining and chloritization associated with fault breccias @159.8-160.3m, disseminated py and ccp occur in carbonate veins, carbonate veins are sub-cm to cm-scale, lower contact is gradational, marked by the transition back into competent diabase.	cataclastic	carbonate alteration	mod str	chlorite alteration	mod str	iron alteration	mod str	cp	0.01 mt	0.1 py	0.1 vcb	0.1 vft	0.25
ELR18-005	163.58	171.44	7.86	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. Lower contact is sharp ~35 DTCA marked by the appearance of minor fault gouge and pervasive rubbly core.	massive	epidote alteration	wk	carbonate alteration	tr	chlorite alteration	mod	py	0.1 mt	0.25	vft	0.3	
ELR18-005	171.44	175.67	4.23	Fault Breccia	D	black grey	mg	fragmental or as fragments	Same as described from 156.9-163.58m. Carbonate vein (1cm) displays silvery mineral that runs high Ni on XRF (possibly native Ni). Lower contact is sharp ~50 DTCA marked by the transition back into competent diabase.	cataclastic	carbonate alteration	mod	chlorite alteration	mod str	iron alteration	mod str	cp	0.01 mt	0.1 ni	0.01 vcb	0.2 vft	0.25
ELR18-005	175.67	204.9	29.23	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. Upper portion of unit is light in colour from 175.67-179m (possibly sericitization or bleaching); patch of weak-moderate, pervasive iron staining or potassic alteration occurs from 181-183m; patch of silicification and sericite occurs from 191.5-192m with vuggy carbonate. Spect.hem-carbonate vein (2cm) occurs @183.3m. Chl-py-qtz vein (2cm) occurs from 200-200.60m with 1.2cm wide chlorite alteration halo. Lower contact is sharp ~20 DTCA and slickensided marked by the transition into healed fault breccia.	massive	epidote alteration	wk	carbonate alteration	wk	chlorite alteration	mod	py	0.1 mt	0.25	vft	0.3	
ELR18-005	204.9	205.6	0.7	Fault Breccia	D	grey fawn	mg	fragmental or as fragments	Diabase, brown-grey to grey-green, medium grained, fragmental, epidote-chlorite-healed fault breccia, moderate-strong epidote and chlorite with weak-moderate carbonate, no observed mineralization, sub-cm carbonate veinlets cut unit, lower contact is sharp ~30 and slickensided, marked by the transition back into competent diabase.													
ELR18-005	205.6	253.55	47.95	Gdl dolerite	D	black grey	mg	massive	Same as described from 4.95-35.22m. 5 cm wide zone of healed fault breccia occurs @230.65-230.70m with increased chloritic alteration associated with adjacent diabase (~0.5m on either side). Patch of moderate silicification and weak sericite between 212-218m in association with carbonate veining ~30-35 DTCA. Overall chlorite is weak and pervasive with moderate, pervasive patches. Patch of moderate-strong chlorite @246.60-247.85 with Ccp-chl vein (1cm) @247.30m. Lower contact is sharp ~60 DTCA with increased chloritization marked by appearance of fault gouge.	massive	epidote alteration	wk	carbonate alteration	wk	chlorite alteration	mod	py	0.1 mt	0.25	vft	0.3	
ELR18-005	253.55	253.58	0.04	Fault	M	grey	fg	fragmental or as fragments	Fault gouge(2cm), medium grey, fine grained, fragmental with wall rock fragments within clay gouge; strong chlorite alteration associated with faulting. Lower contact is sharp ~50 DTCA marked by transition back into competent diabase.	cataclastic	chlorite alteration	wk mod	carbonate alteration	wk mod								
ELR18-005	253.58	257.53	3.95	Gdl dolerite	D	black grey	mg	massive	Same as described from 205.6-253.55m. Lower contact is sharp ~40 DTCA marked by the transition into fault gouge.	massive	epidote alteration	wk	carbonate alteration	wk	chlorite alteration	str	py	0.1 mt	0.25			
ELR18-005	257.53	257.59	0.07	Fault	M	grey	fg	fragmental or as fragments	Fault gouge(2cm), medium grey, fine grained, fragmental with wall rock fragments within clay gouge; strong chlorite alteration associated with faulting. Lower contact is sharp ~40 DTCA marked by transition back into competent diabase.	cataclastic	chlorite alteration	wk mod	carbonate alteration	wk mod								
ELR18-005	257.59	276	18.41	Gdl dolerite	D	black grey	mg	massive	Same as described from 205.6-253.55m. Strong, pervasive chlorite alteration fades out into weak with moderate patches @258.35m. 2 cm wide Ccp-mt-cb vein occurs @262.25m ~20 DTCA with radial-acicular mt. 1-2cm wide Ccp-mt-chl-cb vein occurs @265.99 ~40 DTCA.	massive	epidote alteration	wk	carbonate alteration	wk	chlorite alteration	mod str	cp	0.01 py	0.1 mt	0.2		
ELR18006	0	4.05	4.05	Casing																		
ELR18006	4.05	9.73	5.68	Gdl dolerite	d	green black	mg	massive	Diabase. Dark green black with minor red spotting. Medium grained, equigranular lath of plagioclase and pyroxene. Hard and low moderate competency with fractures throughout often along small mm scale carbonate veinlets. Plagioclase is mostly green or red hued from chlorite when green and hematite dusting when red. Large black grains of magnetite throughout making unit moderately magnetic. Unit is mostly cut by small carbonate veinlets which rarely contain epidote. Unit is also cut by an earlier stage red hued iron altered vein set. Lower contact is sharp at 70DTCA and has an increase in iron alteration making the diabase deep red.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	2 py	0.1	vcb	0.1 vft	0.01		
ELR18006	9.73	9.75	0.02	Cobalt Vein	d	grey	fg		Intergrown Cobalt, galena and tr ag vein in weak carbonate. Dark grey and fine grained. Undulating shape from 1mm to 1cm width. Multigenerational as vein looks to cut an earlier cl/epidote vein. Red iron alteration in adjacent diabase. Sharp contacts at 70 DTCA.	co					15 ga	70	vcb	5 vft	10			
ELR18006	9.75	14.85	5.1	Gdl dolerite	d	green black	mg	massive	Diabase. Same as previous @ 4.05M. Notable quartz vein with weak clactite at 14.75m. Lower contact to larger vein is sharp at 10DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	2 py	0.1	vcb	0.1 vft	0.01		
ELR18006	14.85	15	0.15	Quartz Carbonate vein	l	white	fg		Quartz carbonate vein. White and black crack seal vein with quartz veins parallel to carbonate veins with chlorite stringers bound in between. Galena and chalcopyrite splashes bound in quartz. Sharp contacts at 10DTCA.	cp				1 ga	0.5	vqc	90 vft	10				
ELR18006	15	24.34	9.34	Gdl dolerite	d	green black	mg	massive	Diabase. Same as previous @ 4.05M but with less carbonate veining cutting unit and slightly more competent/less fractures. Sharp lower contact to vein at 50 DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	2 py	0.1	vcb	0.1 vft	0.01		
ELR18006	24.34	24.55	0.22	Quartz Carbonate vein	l	white	fg		Cobalt and silver zone. Two unique veins in close proximity cutting diabase. First vein is mostly carbonate with rounded mm scale quartz inclusions throughout. This vein has small dull specks of chalcopyrite which are to show elevated cobalt levels (possibly intergrown). This vein runs cuts sharply at 50DTCA and is 1.5cm width. 5cm down hole a carbonate vein with no quartz cuts diabase at 10 DTCA. This vein host small splashed of galena bound to chalcopyrite. This vein also host small specs of silver in the carb vein as well as weakly in the adjacent diabase wall.	co				0.1 sv	0.1 cp	2 vcb	10					
ELR18006	24.55	30.98	6.43	Gdl dolerite	d	green black	mg	massive	Diabase. Same as previous @ 15m. Hard and competent. Sharp lower contact at 40DTCA	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	2 py	0.1	vcb	0.1 vft	0.01		

ELR18-007	134.33	134.35	0.02	Fault	M	black grey	fg	fragmental or as fragments	Fault gouge (3-5mm), dark grey, fine grained, weakly fragmental, slip surfaces display well developed chloritic slickenfibres, moderate-strong chlorite alteration, lower contact is sharp ~50 DTCA.	faulted/fault	chlorite alteration	mod str														
ELR18-007	134.35	150	15.65	Gdl dolerite	D	black grey	mg	massive	Same as described from 14-60.85m. Ch-chl-cpp-gp-sph vein (4-5cm wide) occurs @ 140.17-140.47m ~25 DTCA.	massive	potassic	wk	carbonate alteration	wk	epidote alteration	wk	sp	0.05	cp	0.1	ga	0.05	vcb	0.01		
ELR18008	0	2.26	2.26	Casing					Casing, block reads "3m Casing"																	
ELR18008	2.26	57	54.74	Scg conglomerate	d	black red	cg	interbedded	Polymict conglomerate interbedded with laminated silt to mudstone. Deep black red colour. Variably clast supported to matrix supported conglomerate with sand to cobble sized clasts which are subrounded. Unit is hard and competent with few natural fractures and brittle zones. Heavily hematite dusted/alterd. First several metres have a red stain rimming small black grains. Oxidation appears secondary possibly metamorphic related. Trace patchy magnetism towards top of hole. Trace carbonate or quartz fracture filling veins with hematite. Notable vein at 35.65m with large splashes of chalcopyrite. and soft milky carbonate.		Hematitic alteration	str		he	2	mt	0.01	cp	0.01	vqz	0.01	vcb	0.01			
ELR18-009	0	3.5	3.5	Casing																						
ELR18-009	3.5	34.9	31.4	Gdl dolerite	D	Grey Black	mvg	lenticular or as lenticles	Diabase, medium grey, medium grained (1 to 2 mm), massive, equigranular, weak to moderately magnetic. Unit is competent with rubbery core largely confined to top of hole. Increased chlorite alteration associated with slip planes and mt veinlets. Trace finely disseminated pyrite with coarser-grained pyrite on slip planes +/- hematite staining. Veining @ 11.5, 3 mm, quartz vein + blebby pyrite @ between 16.25 to 16.50 m multiple discontinuous magnetic seams @ 20 m, 3 to 5 mm, pyrite +/- specularite quartz vein with pink stained quartz grains, weakly to moderately magnetic; @ 25.5 and 29 blebby pyrite seam +/- hematite staining. Lower contact is sharp and irregular marked by the transition into fault gouge.	slickensided	chlorite alteration	wk mod	Hematitic alteration	wk	Carbonate alteration	v wk	cp	0.1	Py	0.1	Mt	0.5	vft	0.5		
ELR18-009	34.9	35	0.11	Fault	L	Grey	fg	fragmental or as fragments	Fault gouge (3cm), light grey, fine to very fine grained, fragmental, sub-cm-scale mt-py vein associated with upper contact, lower contact is sharp ~40 DTCA.	tectonic																
ELR18-009	35	60.6	25.6	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. @32.5 m, 2 cm hematite, blebby pyrite +/- pyrrhotite +/- specularite, magnetic, with mm rust-red alteration halo on either side; @ 42 m, 2 cm, blebby pyrite, specularite, with quartz (Corona texture, pale green inside, clear rim and mm rusty-red alteration halo. Lower contact is sharp ~60 DTCA marked by the transition into fault gouge.	slickensided	chlorite alteration	wk mod	Hematitic alteration	wk	Carbonate alteration	v wk	cp	0.1	Py	0.1	Mt	0.5	vft	0.5		
ELR18-009	60.6	60.66	0.06	Fault	L	Grey	fg	fragmental or as fragments	Fault gouge (5cm), light grey, fine to very fine grained, fragmental, increased epidote alteration associated with fault, lower contact is sharp ~60 DTCA.	tectonic																
ELR18-009	60.66	124.3	63.64	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. Zone of intense epidote alteration occurs from 60.66-62 m in association with fault margin. Chloritization of pyroxenes becomes more prominent toward end of unit. Mt-Cp-Ch-Ep-Py vein (4 cm wide) @ 78.85-78.90m cuts unit @5 DTCA with variably developed pink-orange alteration halo ~10cm wide (possibly potassic). Ch-Chl vein (1 cm wide) occurs @81m ~20 DTCA. Mt-Ch-Py vein (6 cm wide) occurs from 118.80-119m @40 DTCA with 1-2cm wide bleached/carbonate alteration halo. Lower contact is sharp ~40 DTCA marked by the transition into fault gouge.	slickensided	chlorite alteration	wk mod	Epidote alteration	wk	Carbonate alteration	wk	cp	0.01	Py	0.1	Mt	0.5	vcb	0.2		
ELR18-009	124.3	124.5	0.21	Fault	L	Grey	fg	fragmental or as fragments	Fault gouge (~8cm), light grey, fine to very fine grained, fragmental, lower contact is sharp ~40 DTCA.	tectonic																
ELR18-009	124.5	140.5	16	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. Lower contact is sharp ~40 DTCA.	slickensided	chlorite alteration	mod	carbonate alteration		cp	0.01	Py	0.05	Mt	0.25						
ELR18-009	140.5	140.6	0.1	Fault	L	Grey	fg	fragmental or as fragments	Fault gouge (~2-3cm), light grey, fine to very fine grained, fragmental, lower contact is sharp ~40 DTCA.	tectonic																
ELR18-009	140.6	180.27	39.67	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. 1-2cm spec. hematite, magnetite, pyrite vein at 158.85m Lower contact is sharp ~50 DTCA or fault.	massive	chlorite alteration	mod	carbonate alteration	wk	cp	0.01	Py	0.05	Mt	0.25						
ELR18-009	180.27	180.36	0.1	Fault	L	Grey	fg	fragmental or as fragments	Fault gouge (~2cm), light grey, fine to very fine grained, fragmental, lower contact is sharp ~50 DTCA.	tectonic																
ELR18-009	180.36	277.6	97.24	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. 1cm veinlet at 227.65 m displayed 287 ppm cobalt in XRF (45 DTCA). Several brecciated epidote veinlets (1-2cm wide) - 194.9, 232, 240.7, 246.7 and 266.67m. After about 267m diabase fines gradationally, getting darker in colour, the phenocrysts start to become more altered with white coronas around chloritized pyroxenes and feldspars. Lower contact marked by the end of the ~6cm wide chilled margin, sharp, at 55 DTCA.	massive	chlorite alteration	mod	carbonate alteration	wk	Epidote alteration	wk	cp	0.01	Py	0.05	Mt	0.25	vft	0.5		
ELR18-009	277.6	287	9.4	Gdl dolerite	D	Grey Black	mvg	massive	Same as described from 3-34.90m. Phenocrysts start to become more altered with white coronas around chloritized pyroxenes and feldspars. Progressive fining starting at 284.5m getting closer to chilled margin. Lower contact sharp after ~10cm wide chilled margin, at 55 DTCA.	massive	chlorite alteration	mod	carbonate alteration	wk	sericite alteration	wk mod	cp	0.01	Py	0.05	Mt	0.25	vft	0.1		
ELR18-009	287	300	13	Gpu granitic rock (undifferentiated) - granitoid	D	brown red	cg	massive	Cryptic, metamorphosed metaconglomerate (likely Archaean basement), dark black-brown to red-brown, light green-grey in silica flooded zones, alternating bands of coarse grains (felsic material- heavily flooded with silica), weak to moderately magnetic, equigranular, foliation defined primarily by magnetite (inconsistent- more developed in coarser sections), moderately pervasive iron staining (Light red brown staining throughout, low potassium in XRF)	foliated/foliation	silica alteration	mod str	hydrothermal	mod	cp	0.1	Py	0.1	Mt	0.5						
ELR18-010	0	6.85	6.85	Casing																						
ELR18-010	6.85	112.61	105.76	Gdl dolerite	D	black grey	mg	massive	Diabase, dark grey, fine-medium to medium-coarse grained, massive, equigranular, weakly-moderately magnetic, unit displays gradational coarsening downhole, rubbery zones occur @ 36-40.30m; likely fault zone, weak epidote, chlorite, and carbonate alteration with weak iron staining at upper portion of hole, ccp-mt-hm occur intergrown within cm-scale carbonate veins, sub-cm-scale epidote veinlets crosscut unit; 1 cm wide Co-bearing carbonate vein ~55 DTCA (734 ppm on XRF) 4cm wide ccp-bearing carbonate vein ~25 DTCA occurs @20.55m; 6 cm wide carbonate-hm-ccp vein ~45 DTCA occurs @ 29.10m; other cm-scale carbonate-hm-mt-ccp veins occur @ 23.10, 35.85, 40.55, 48.25, 55.25, 56.85, 83.77,86.63, 97m, lower contact is sharp ~70 DTCA marked by the transition into fault gouge; core becomes rubbly in last 3.5m.	lineated or forming lineation	carbonate alteration	wk	epidote alteration	wk	chlorite alteration	wk	co	0.001	cp	0.01	he	0.1	vcb	0.1	vft	0.01
ELR18-010	112.61	112.71	0.10	Fault	M	grey	fg	fragmental or as fragments	Fault gouge (2-3cm), medium-light grey, fine grained, fragmental, cataclastic diabase occurs ~6m on either side of fault gouge, diabase is slightly light in colour around fault; possibly bleaching(?), lower contact is sharp ~70 DTCA marked by the transition back into diabase.	faulted/fault	bleached/bleachin g	wk														
ELR18-010	112.71	126.45	13.74	Gdl dolerite	D		mg	massive	Same as described from 6.85-112.61m. Gradational fining of unit occurs toward lower contact, grading down to fine grained, aphanitic chilled margin. Upper portion of unit is rubbly up unit 120.5m. 1-2cm wide ccp-bearing carbonate vein occurs @115.5m. Lower contact is sharp ~60 marked by the appearance of a chilled margin and transition into Gowganda conglomerate. Lower contact displays increased epidote alteration and brecciation.	lineated or forming lineation	carbonate alteration	wk	epidote alteration	wk	chlorite alteration	wk	cp	0.01	mt	0.2		vcb	0.01	vft	0.05	
ELR18-010	126.45	133.22	6.77	Scg conglomerate	M	black grey grey pink	cg	sorting poor	Conglomerate (Gowganda Formation) with interbeds of sandstone, pink-grey, very coarse grained-medium grained, massive to weakly bedded, very competent unit, weak carbonate alteration, minor ccp and hm in carbonate veins. Lower contact is sharp ~50 DTCA.	massive	carbonate alteration	wk		cp	0.001	he	0.01		vcb	0.01						

ELR18012	37.4	37.45	0.06	Cobalt Zone	m	mcg	brecciated	Cobalt zone in carbonate vein with orange brecciated diabase similar to the zone at 21m. This breccia vein lacks cp. Sharp contacts at 34 and 20 DTCA.	brecciated	Hematite alteration	str	potassic	str	chlorite alteration	str	co	2		vcb	60		
ELR18012	37.45	40.9	3.45	Gdl dolerite	d	mcg	massive	Diabase, same as previous at 32.58m. Large carbonate vein with 25% cp ad 5% he from 39.05-39.1m. Large parallel unmineralized vcb's similar to those found in bx zones from 40.4-40.5m. Sharp lower contact to fault at 35DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	mod	Saussurite	wk	cp	0.1 py	0.1 mt	1 vlt	1 vcb	0.01	
ELR18012	40.9	41	0.11	Fault	d	mg	fragmental or as fragments	Fault zone. Dark green to black mg diabase which is cl altered an faulted with cl rich gouge in small lenses between fractures. Small cm wide carbonate vein with an abundance of magnetite, chalcopyrite and hematite within. Sharp contacts at 35 and 40 DTCA.	faulted/fault	chlorite alteration	v str					mt	5 cp	2 he	1 vcb	5 vlt	5	
ELR18012	41	46.3	5.30	Gdl dolerite	m	mcg	massive	Diabase, same as previous units. Large unmineralized vcb at 42.70-42.75.1m. Sharp lower contact to dyke at 65DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	mod	Saussurite	wk	mt	1		vlt	1 vcb	0.1	
ELR18012	46.3	46.4	0.11	Cobalt Zone	m	mcg	massive	Cobalt zone. Aplite dyke? brown orange, medium course grained. Massive and equigranular. Sharp distinct contacts but unit looks like orange altered diabase. Strong increase in carbonate veinlets which at time brecciate unit. Cobalt is found in a carbonate vein alongside cp in the same stringer at 65 DTCA. Sharp contacts both at 65DTCA.	massive	Hematite alteration	str	potassic	str			co	2 cp	2		vcb	5 vlt	2
ELR18012	46.4	66.75	20.35	Gdl dolerite	m	mcg	massive	Diabase, same as previous units. Two notable carbonate veins at 60.2, 60.5m and 63.5m are crack seal and contain minor cp. Sharp lower contact to dyke at 65DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	mod	Saussurite	wk	mt	1 cp	0.01		vlt	1 vcb	0.1
ELR18012	66.75	67.04	0.30	Cobalt Zone	d	fg	massive	Cobalt zone. Aplite dyke with cp/mt/py vein hosting cobalt at lower contact. Black orange, fine grained and massive. Cut by small cl veinlets and partially broken and brittle. Dark hue from possible cl alteration in groundmass. Dyke is moderately magnetic. Unique mineralization confined to 3cm vein at lower contact. Cobalt is not visible and appears to possibly be intergrown with pyrite. Contact are sharp and at 65 and 70 DTCA.	massive	chlorite alteration	mod str				co	0.1 cp	1 mt	2 vlt	5 vcb	1		
ELR18012	67.04	91.05	24.01	Gdl dolerite	m	mcg	massive	Diabase, same as previous units with one cobalt bearing vein <1cm width running parallel to core axis undulating in and out of the core from 83 to 85.25. The cobalt is hosted in cl/py rich vcb. The pyrite is coarse and subhedral and may be mixed with cobalt. Cobalt may also be too fine grained to see and disseminated in the cl. Sharp lower contact at 65 DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	mod	Saussurite	wk	co	0.01 mt	1 py	0.1 vlt	1 vcb	0.1	
ELR18012	91.05	91.56	0.52	Gou igneous rock (undifferentiated)	m	mg	massive	Aplite dyke? Orange brown, mg, massive. Vague sharp contacts but conformable appearance to diabase but altered orange. Cut by few cm scale grey white carbonate veins with small cl veinlets. Hematite alteration from k or fe. Non magnetic and unmineralized. Sharp contacts, upper at 65 and lower at 50 DTCA.	massive	Hematite alteration	str	potassic	str						vlt	1 vcb	5	
ELR18012	91.56	120	28.44	Gdl dolerite	m	mcg	massive	Diabase, same as previous units with more brittle cl vlt rich sections. Vein with cobalt at 110.25m hosted in small 2cm wide magnetite/py vcb with contacts at 65 DTCA. Few mineralized vcb with mt and py.	massive	Hematite alteration	wk mod	chlorite alteration	mod	Saussurite	wk	mt	1		vlt	1 vcb	0.1	
ELR18013	0	3	3.00	Casing				3m Casing														
ELR18013	3	3.6	0.60	Gdl dolerite	d	mg	massive	Diabase. Dark green grey/black. Medium to medium fine grained lath of plagioclase and pyroxene. Massive, hard and competent. Green hue from probable chlorite alteration. Becomes altered orange from k or fe 5cm from contact to vcb. Chlorite alteration also increase proximal to vein. Weakly magnetic with minor disseminated magnetite in groundmass. Unit is cut by two vein sets, carbonate and epidote. Lower contact is sharp at 30 DTCA.	massive	chlorite alteration	wk mod	potassic	wk mod	Hematite alteration	wk mod	mt	0.1			vcb	1 vlt	1
ELR18013	3.6	3.77	0.17	Carbonate Vein	i	cg		Carbonate vein. Grey to white. Weak presence of blebby quartz bound by calcite. Possible multi generational vein appears roughly layered with a cleaner white vein through the middle. Vuggy towards lower contact. Mineralization consists of large 'splashes' of mostly chalcopyrite with some purple bornite and is confined towards the walls. Sharp contacts at 30 and 35 DTCA.		Hematite alteration	wk mod					cp	5 bn	1		vcb	94	
ELR18013	3.77	38.36	34.59	Gdl dolerite	m	mcg	massive	Diabase. Medium green grey/black. Medium course grained lath of plagioclase and pyroxene. Equigranular. Massive, hard and competent. Green hue of plagioclase from probable chlorite alteration alternates with a red possible hematite staining. These alterations both increase in intensity proximal to veins and veinlets. Weakly micaceous. Pyroxene grains at times look replaced with cl. Weak to moderately magnetic throughout. Vein intensity is low, increasing at lower contact with the presence of small carbonate veins. Small epidote veinlets can be found throughout, often at high angles to core axis. Few mineralized cl veinlets hosting he/cp/py. Lower contact is sharp to main vein at 30DTCA but has a gradational increase in k or fe alteration.	massive	chlorite alteration	wk mod	Hematite alteration	wk mod		mt	1 py	0.01 cp	0.01 vlt	1 vcb	0.1		
ELR18013	38.36	39.52	1.16	Cobalt Zone	i	mg	brecciated	Cobalt Zone. Brecciated diabase hosted in carbonate vein. White calcite with orange altered diabase. Calcite has a coarse growth like structure when vein is thickest. Breccia clasts are cm scale and sub-angular to sub-rounded. Alteration of diabase to orange hue could be k or fe related. Cobalt is found bound in carbonate vein proximal to clasts and has a wispy flow like texture and is highest proximal to vein walls. Cobaltite looks to be blended with py/cp in coarse subhedral grains towards lower contact. Contact are sharp and at 30 and 30 DTCA.	brecciated	potassic	mod	Hematite alteration	mod		co	1 cp	1 py		1 vcb	90		
ELR18013	39.52	41.33	1.81	Gdl dolerite	m	mcg	massive	Diabase. Same as previous at 3.77-38.36m but more orange, slightly calcitic and without mineralized veinlets. Also increased amount of small carbonate veins due to being bound by two large vein sets. Sharp lower contact at 50 DTCA.	massive	chlorite alteration	wk mod	Hematite alteration	wk mod	carbonate alteration	mod	mt	1			vcb	1	
ELR18013	41.33	42	0.68	Carbonate Vein	i	mg		Carbonate vein. Grey to white. Weak presence of blebby quartz bound by calcite. ~ 2cm width cutting diabase at a low mostly 10 DTCA angle. Multi generational vein appears roughly layered with alternating calcite quartz and cl layers. Vein is stepped with two distinct alpha angles at 30-40 and mostly 10 DTCA. Mineralization consist of small sum cm scale 'splashes' of cp. Contact are sharp, but small vcb veins gradationally reduce in diabase.		chlorite alteration	mod str				cp	1 he	0.1		vcb	40		
ELR18013	42	80.3	38.30	Gdl dolerite	m	mcg	massive	Diabase. Same as previous at 3.77-38.36m with a lower overall competency due to a higher increase in cl vlt's and cl alteration seen as an increase in pyroxene replacement as large sub cm cl eyes. Notable mineralized cl/vcb vein at 68.4m which hosts up to 20% mt/cp. Sharp lower contact to dyke at 40DTCA.	massive	chlorite alteration	mod str	Hematite alteration	wk mod		mt	1 py	0.01 cp	0.01 vlt	2 vcb	0.1		
ELR18013	80.3	80.6	0.30	Gou igneous rock (undifferentiated)	d	fg	massive	Aplite dyke? Dark brown orange. Fine grained, massive, partially broken/brittle, looks like diabase with an orange hue from lightened fe or k (k is low in vlt). Pyrite heavily disseminated in cl infill veins. Minor cp seen in small splashes in diabase matrix. Weakly magnetic. Sharp contacts at 40 DTCA.	massive	potassic	wk	Hematite alteration	str	chlorite alteration	wk mod	cp	3 py	1		vlt	5	
ELR18013	80.6	81.55	0.96	Gdl dolerite	m	mcg	massive	Diabase. Same as previous with very high localized cl replacement of pyroxene grains and brittle localities. White mica grains throughout. Sharp lower contact at 45 DTCA.	massive	chlorite alteration	str				mt	1			vlt	2 vcb	0.1	
ELR18013	81.55	81.2	-0.35	Gou igneous rock (undifferentiated)	d	fg	massive	Aplite dyke? Same as previous at 80.3 but smaller and more magnetic. Sharp contacts at 45DTCA.	massive	Hematite alteration	str	chlorite alteration	wk mod			mt	2 cp	0.1		vlt	5	
ELR18013	81.2	134.4	53.20	Gdl dolerite	m	mcg	massive	Diabase. Same as previous with very high localized cl replacement of pyroxene grains and brittle localities.	massive	chlorite alteration	str				mt	1 py	0.1		vlt	1 vcb	0.1	

ELR18013	134.4	134.73	0.33	Gsu igneous rock (undifferentiated)	d	fg	massive	Aplite dyke? Similar dyke to previous with dark grey spotting throughout. Dyke is weakly brecciated and healed. Cut by small mm scale spec hem veinlets. Non magnetic. Sharp contacts 7 DTCA upper and irregular undulating 75 DTCA avg lower cut.	brecciated	Hematite alteration	str	he	1 mt	1	vft	2			
ELR18013	134.73	140.75	6.03	Gdl dolerite	m	brown orange mg	massive	Diabase. Same as previous but finer grained and still with very high localized cl replacement of pyroxene grains and brittle localities increasing towards lower contact with fault. Sharp lower contact to fault at 200DTCA.	massive	chlorite alteration	str	mt	1		vft	1			
ELR18013	140.75	144.34	3.59	Fault	m	grey green mg	fragmental or as fragments	Faulted diabase. Similar diabase as previous unit but with a drastic increase in unconsolidated section with gouge and small veinlets cutting unit, often with a red iron oxide component. Some pieces are brecciated and healed with small vit's. An increase in epidote veinlets is also found localized to the fault. Lower contact is a gradational competency gain.	cataclastic	Hematite alteration	str	chlorite alteration	str	mt	1 he	1	vft	5 vcb	0.1
ELR18013	144.34	148.21	3.87	Gdl dolerite	m	grey mg	massive	Diabase. Same as diabase from 134.73m. Large m scale skilled margin becomes light grey and aphanitic before sharp lower contact to sediments at 60 DTCA.	massive	chlorite alteration	str	mt	1		vft	1			
ELR18013	148.21	177.4	29.19	Scg conglomerate	m	black orange cg	interbedded	Conglomerate interbedded with siltstone. Conglomerate beds are red orange and siltstone beds are grey to black and interbedded on the metre scale throughout. Conglomerate is polymict and mostly clast supported with clast from sand to cobble sized, siltstone is vfg and laminated on the sub cm scale. Unit is mostly competent and siliceous. Brittle localities exist in both pt and scg. Hematite alteration throughout conglomerate beds making it very orange to red. Some siltstone beds are heavily cl altered. Trace quartz veinlets cut unit. Sharp lower contact at 300DTCA.		Hematite alteration	str	chlorite alteration	wk mod	he	2 mt	1	vqz	0.1	
ELR18013	177.4	186	8.6	Ggu granitic rock (undifferentiated) - granitoid	m	orange cg	massive	Granite. Variable orange to grey orange hue. Course grained and equigranular and massive. Cut by small orange felsic dykes or fluid segregations. Iron alteration making some patches more orange. Non magnetic and no visible sulphides. Cut by few small cl veinlets.	massive	Hematite alteration	mod str	he	1		vft	0.1			
ELR18014	0	3.95	3.95	Casing				Block states 3m Casing											
ELR18014	3.95	17.35	13.4	Gdl dolerite	d	green grey mg	massive	Diabase. Dark grey with light green or orange hematite dusted plag. Medium grained and equigranular sub to anhedral lath of both plag and pyroxene. Unit is hard but fractured throughout due to an abundance of small cl veinlets cutting unit. Near cataclastic from 10 to 17m. Orange and green plag alteration due to cf and hematite. Weak pervasive magnetism due to disseminated magnetite. Trace fg disseminated py. Unit is mostly cut by small cl veinlets which looks to mostly be fracture infill related. Unit is also cut by few fine green epidote veinlets towards sharp lower contact at 70DTCA. Lower contact to vein also has a weak bleaching making the surrounding diabase lighter hue.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1	vft	2	
ELR18014	17.35	17.4	0.05	Carbonate Vein	l	grey white fg		Carbonate vein. White to grey. Crack seal texture makes vein appear multigenerational with later stage cl veinlets cutting through in and outside parallel to vein hosting large splashes and stringers of chalcopyrite. Moderate cl alteration in surrounding diabase. Contacts are sharp at both at 70DTCA.		chlorite alteration	mod	cp	5		vcb	90 vft	10		
ELR18014	17.4	29.85	12.45	Gdl dolerite	d	green grey mg	massive	Diabase. Same as previous at 3.95m but more consistently fractured and fault like with occasional gouge like material found in brittle broken zones. Lower contact to dyke is around 70DTCA and conformable.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1	vft	2	
ELR18014	29.85	30.08	0.23	Gsu igneous rock (undifferentiated)	m	brown orange mg		Cobalt Zone. Aplite dyke? With 5cm cobalt bearing carbonate vein cutting though parallel to dyke. Dyke is orange hue diabase and medium grained/massive. Dyke is partially brecciated from an abundance of small carbonate veins. Carbonate vein hosts multiple small stringers of cobaltite. Upper contact is vague and appears conformable, lower contact is sharp. Both contacts around 70 DTCA.	brecciated	Hematite alteration	mod str	co	3		vcb	10			
ELR18014	30.08	54.24	24.16	Gdl dolerite	d	green grey mg	massive	Diabase. Same as previous but more competent. Two brittle cataclastic zones from 41-42 and 45.5-47m. One notable magnetite vein w/ cp at 41.9m is 4cm width. Abundance of epidote and cl veinlets from 51-51.5m. Gradational alteration increase becoming orange hue before sharp contact to vein 2 50DTCA	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1	vft	2 vcb	0.01
ELR18014	54.24	54.75	0.51	Breccia	m	brown orange mg	brecciated	Cobalt Zone. Brecciated and carbonate healed orange altered diabase. Orange hue from possible alteration or conformable aplite dyke. Medium grained. Weakly brecciated with few cm scale subangular breccia pieces. Main vein from 54.32-54.42 hosting an abundance of vfg cobaltite in a wispy background disseminated in carbonate and in weakly developed veinlets towards vein walls. Contact to orange altered unit are 60 and 15 for upper and lower contacts respectively.	brecciated	Hematite alteration	mod	potassic	wk	co	1 py	1	vcb	10	
ELR18014	54.75	57.73	2.98	Gdl dolerite	d	green grey mg	massive	Diabase. Same as previous but competent throughout. Two notable carbonate veins at 56.05 and 56.7 are crack seal and appear unmineralized. Chlorite alteration is high adjacent to veins. Sharp lower contact to dyke at 60 DTCA	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1	vft	1 vcb	1
ELR18014	57.73	58.08	0.36	Gsu igneous rock (undifferentiated)	m	orange fg	massive	Cobalt zone. Aplite dyke? 5mm late stage cobalt vein cuts dyke in middle at 60DTCA, parallel to dykes contacts. Dyke is orange and fine grained. Massive but cut by cobalt and carbonate veins. Orange hue from iron or potassium al. Pyrite and chalcopyrite on dyke walls. Sharp contacts at 60 and 65DTCA. (upper/lower)	massive	Hematite alteration	str	potassic	wk	co	2 py	1 cp	1 vcb	5	
ELR18014	58.08	63.59	5.52	Gdl dolerite	d	green grey mg	massive	Diabase. Same as previous but more broken with a higher abundance of cl veinlets. Unit gradationally becomes lighter beige/orange hue at 63.45m due to and increase in carbonate veins before lower contact which is sharp at 45DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1	vft	2 vcb	1
ELR18014	63.59	63.85	0.26	Carbonate Vein	l	grey white fg		Cobalt zone. Multiple low angle carbonate veins hosted in a medium course grained diabase which is heavily dotted with cl replacing pyroxene. Cobalt may be a component within subhedral pyrite grains or disseminated in chlorite veinlets. Sharp contacts define where alteration starts/ends at 45 and 50 for upper and lower. Vein orientation within diabase is 15DTCA.		chlorite alteration	str	co	1 py	2	vcb	45 vft	5		
ELR18014	63.85	98.3	34.45	Gdl dolerite	m	grey mg	massive	Diabase. Medium to dark grey, at times green grey. Same as previous diabase's but with a high competency and heightened cl alteration/replacement of pyroxene adjacent to veins and extending into diabase. Few notable carbonate veins at 73.2, 86.11, and 95.19m which hosts minor cp and no co (vft). Lower contact is sharp at 68 DTCA.	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1 cp	0.01 vcb	0.5 vft	0.1
ELR18014	98.3	98.55	0.25	Gsu igneous rock (undifferentiated)	m	brown orange fg	massive	Aplite dyke? Brown orange fine grained and massive. Sharp contacts. Cut by one large multigenerational carbonate vein which runs parallel to dyke. Orange alteration could be iron or potassium. Vein is rich in spec hematite and chalcopyrite. Few cl veinlets run parallel in carbonate vein. Contacts for upper and lower at 68 DTCA.	massive	Hematite alteration	str	potassic	wk	he	5 cp	1	vcb	10 vft	5
ELR18014	98.55	106.55	8	Gdl dolerite	m	grey mg	massive	Diabase. Same as previous @ 63.85. Notable crack seal carbonate veins at 103.5 and 105.75m	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1 py	0.1 cp	0.01 vcb	0.5 vft	0.1
ELR18014	106.55	106.59	0.05	Carbonate Vein	l	grey white fg		Cobalt zone. White carbonate vein which hosts a late stage veinlet of cobalt/chlorite in middle which runs parallel with vein. Vein appears multigenerational. Sharp contacts at 50DTCA				co	2		vcb	95 vft	5		
ELR18014	106.59	111.62	5.03	Gdl dolerite	m	grey mg	massive	Diabase. Same as previous @ 98.55	massive	Hematite alteration	wk mod	chlorite alteration	wk mod	mt	1		vcb	0.1 vft	0.1

EURUSD	58.58	58.58	1.00	10276	0.09	7.59	35	160	0.52	0.11	6.46	0.11	18.2	41.8	51	0.95	190	749	14.85	0.1	1.2	0.07	1.91	31	117	4.35	1370	104	137	23	99.2	260	8.2	46.4	0.003	0.09	0.21	30.8	-1	0.7	1.14	0.15	-0.05	1.27	0.983	0.28	1.9	218	0.3	14.5	84	474
EURUSD	58.58	58.58	0.87	10277	0.11	7.97	4	190	0.30	0.24	6.00	0.11	12.2	45.4	39	0.84	161.5	74.3	13.65	0.08	1.2	0.063	2	51	183	4.78	1410	84.0	131.1	1.8	109.5	208	39.8	51.5	0.002	0.07	0.28	32.2	1	0.5	141.5	0.11	-0.05	1.18	0.94	0.29	0.4	120	0.2	12.1	86	418
EURUSD	60.25	61.00	0.75	10278	0.07	7.90	20	190	0.31	0.11	6.54	0.09	11.5	45	31	0.76	109.5	63.8	14.3	0.09	1.2	0.055	1.86	4.9	32.2	4.13	1360	0.43	135	1.8	94	190	9.3	44.9	0.002	0.08	0.21	31.4	1	0.8	124	0.14	-0.05	1.18	0.33	0.3	0.4	202	0.2	12.1	84	414
EURUSD	61.00	62.00	1.00	10279	0.07	7.96	32	190	0.72	0.25	6.82	0.1	7.11	40.7	34	0.81	186	64.1	14.76	0.1	1.2	0.049	1.96	30.9	40.4	4.34	1440	0.34	124	1.8	94	279	9.1	47.5	0.004	0.07	0.21	31.6	-1	0.8	106	0.14	-0.05	1.18	0.99	0.28	0.5	216	0.1	19	86	472
EURUSD	62.00	62.50	0.50	10280	0.2	8.1	171	80	1.46	0.7	6.95	0.15	5.2	10.5	35	0.95	127.5	5.8	15.3	0.12	1.2	0.1	1.27	24.3	5.8	2.28	1480	0.81	27.4	1.9	99.2	220	11.4	44.1	0.004	0.07	0.21	31.6	-1	1	82.1	0.14	-0.05	1.3	0.189	0.19	1	214	0.5	16.6	107	454
EURUSD	63.00	63.80	0.80	10281	2.08	7.92	3	160	0.86	0.09	6.15	0.12	10.9	49.6	35	0.71	120	4.44	13.76	0.09	1.1	0.048	2.02	44	38.4	4.06	1460	0.54	136	1.9	104.5	210	7.1	46.8	0.008	0.08	0.27	32.1	1	0.5	112	0.14	-0.05	1.09	0.99	0.31	0.4	201	0.1	11.7	107	443
EURUSD	63.09	63.59	0.50	10282	0.12	8.01	245	50	1.46	4.26	8.4	0.02	93.9	163	31	0.71	18.9	1.72	14.75	0.17	1.2	0.107	0.99	42.8	49.3	1.02	1220	20.1	17.8	1.8	84.3	140	8.4	38.3	0.002	0.06	0.1	26.3	1	0.8	42.4	0.11	-0.05	1.28	0.237	0.17	0.7	238	1.3	15.8	40	462
EURUSD	63.98	63.80	0.18	10283	1.38	6.52	1490	100	0.86	38.2	0.16	0.02	195	97.6	34	0.66	16.5	4.2	14.45	0.09	1.0	0.041	0.1	38.4	41.4	2.14	1480	0.62	1.6	0.8	80.8	40.00	0.38	1.42	26.4	1	1.1	47.8	0.09	0.46	0.99	0.196	0.21	1.4	201	0.1	11.7	107	443			
EURUSD	64.09	64.35	0.26	10284	0.12	8.01	4	80	0.08	6.18	21.8	0.02	241	4.5	3	0.75	1.8	3.78	14.75	0.17	1.2	0.099	0.94	1.7	2.4	1.41	145	0.5	0.5	0.002	0.01	0.07	1.8	1	0.2	70.5	0.05	-0.05	0.09	0.037	0.02	0.1	31.1	-0.1	3.2	3	14					
EURUSD	64.09	64.35	1.00	10284	0.18	7.90	300	100	0.27	0.55	2.18	0.1	11	20.1	145	0.85	1.81	5.96	14.2	0.1	1.2	0.068	1.42	17.5	48.4	4.29	1440	4.44	12.1	1.9	104.5	210	4	41.4	0.002	0.08	0.24	26.4	-1	0.6	102.5	0.11	-0.05	1.17	0.36	0.23	0.6	114	0.6	11.8	81	44
EURUSD	64.09	64.35	1.00	10284	0.18	7.90	300	100	0.27	0.55	2.18	0.1	11	20.1	145	0.85	1.81	5.96	14.2	0.1	1.2	0.068	1.42	17.5	48.4	4.29	1440	4.44	12.1	1.9	104.5	210	4	41.4	0.002	0.08	0.24	26.4	-1	0.6	102.5	0.11	-0.05	1.17	0.36	0.23	0.6	114	0.6	11.8	81	44
EURUSD	64.51	65.35	0.84	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28	0.4	205	0.3	11.1	81	47.2
EURUSD	64.51	65.35	1.00	10285	0.10	8.38	83	150	0.32	0.5	6.15	0.1	11.5	46.8	42	0.84	120.5	6.8	14.2	0.1	1.2	0.048	1.82	3.8	35.5	4.27	1280	1.73	13.9	1.9	102	210	5.1	47.5	0.002	0.07	0.24	27.8	1	0.5	110	0.14	-0.05	1.11	0.144	0.28						

W

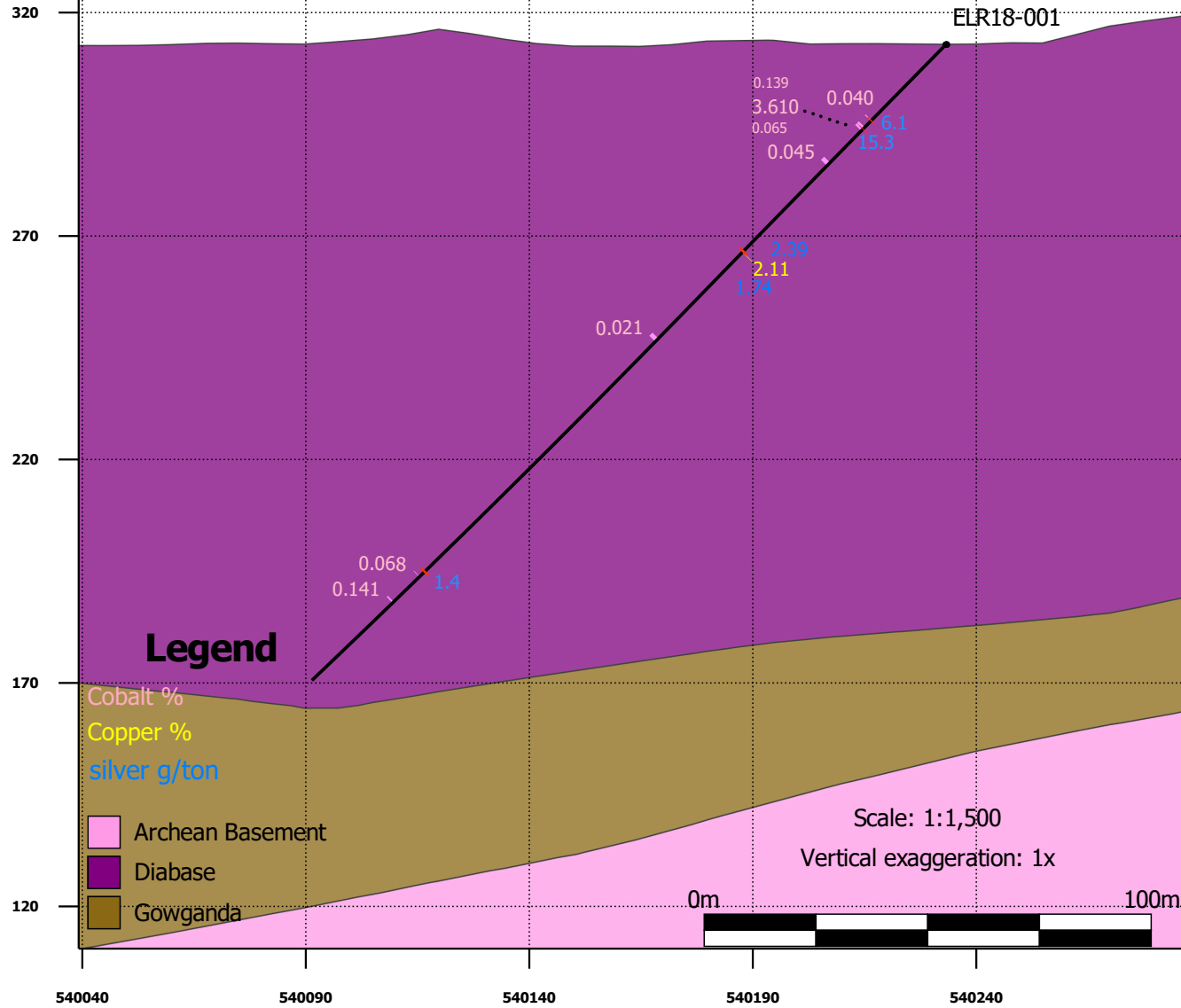
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ELR18-001

Location

W: 540039, 5291982

E: 540289, 5291982



W

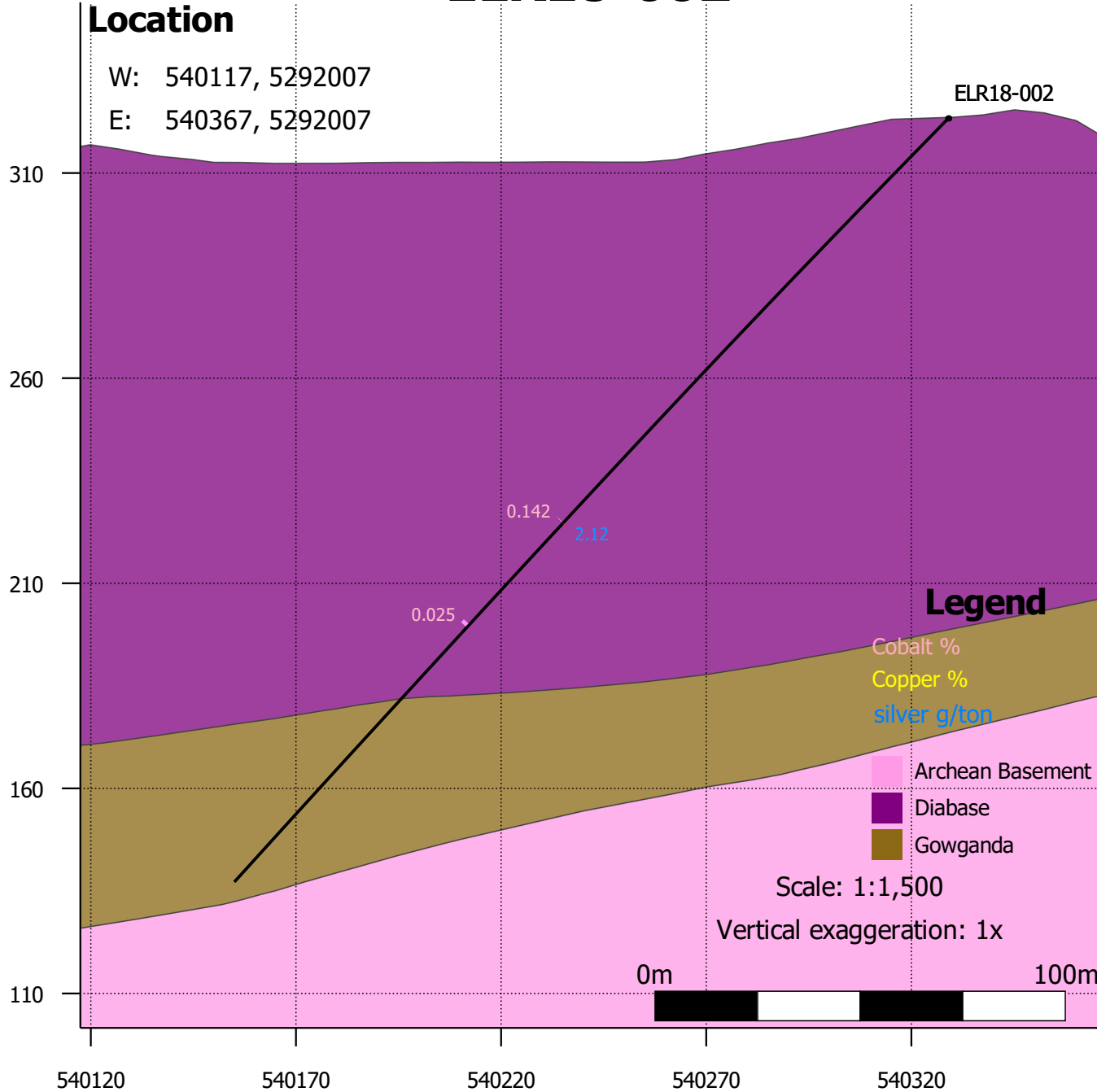
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ELR18-002

Location

W: 540117, 5292007

E: 540367, 5292007



Legend

- Cobalt %
- Copper %
- silver g/ton
- Archean Basement
- Diabase
- Gowganda

Scale: 1:1,500
 Vertical exaggeration: 1x



W

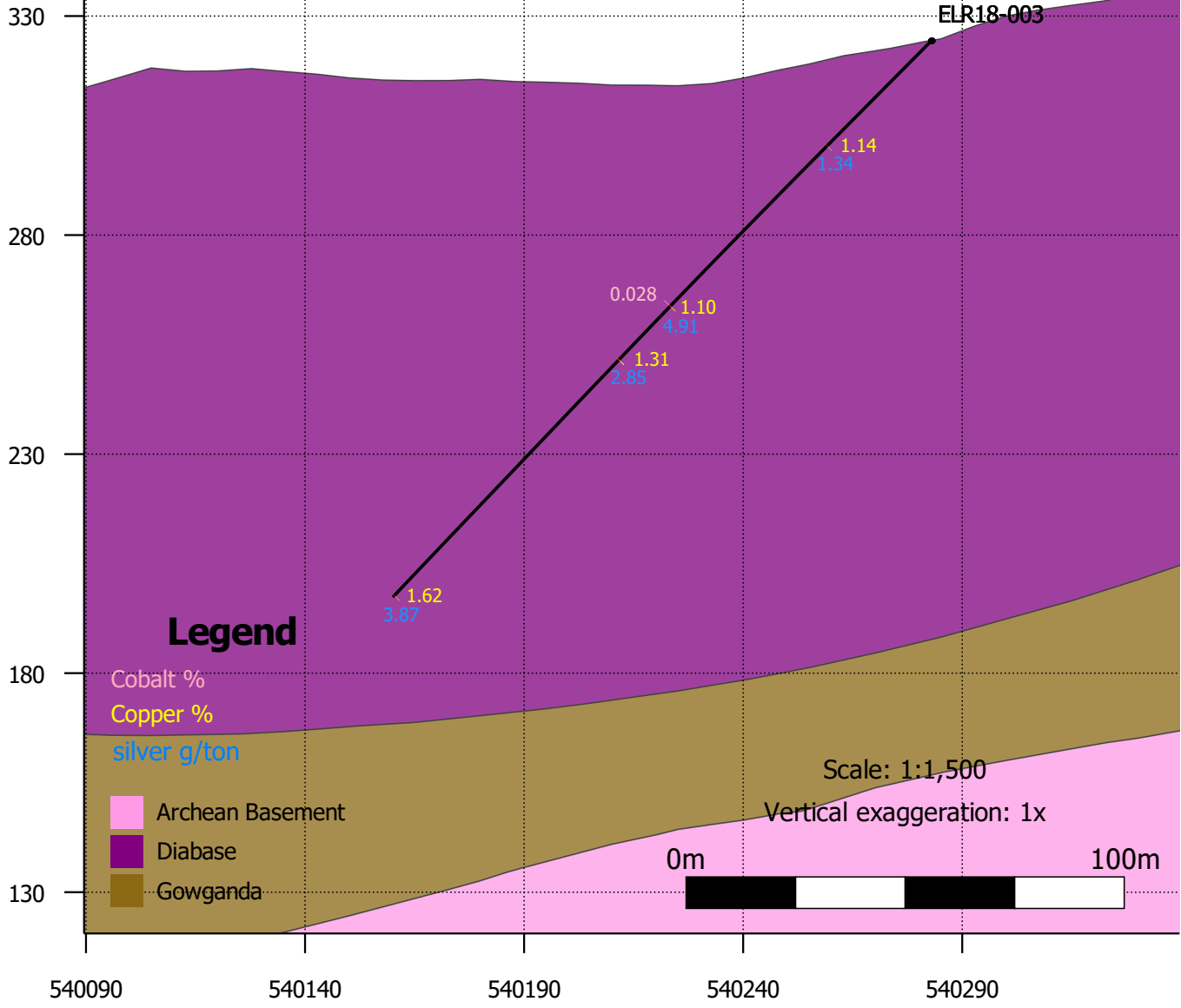
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ELR18-003

Location

W: 540090, 5291887

E: 540340, 5291887



W

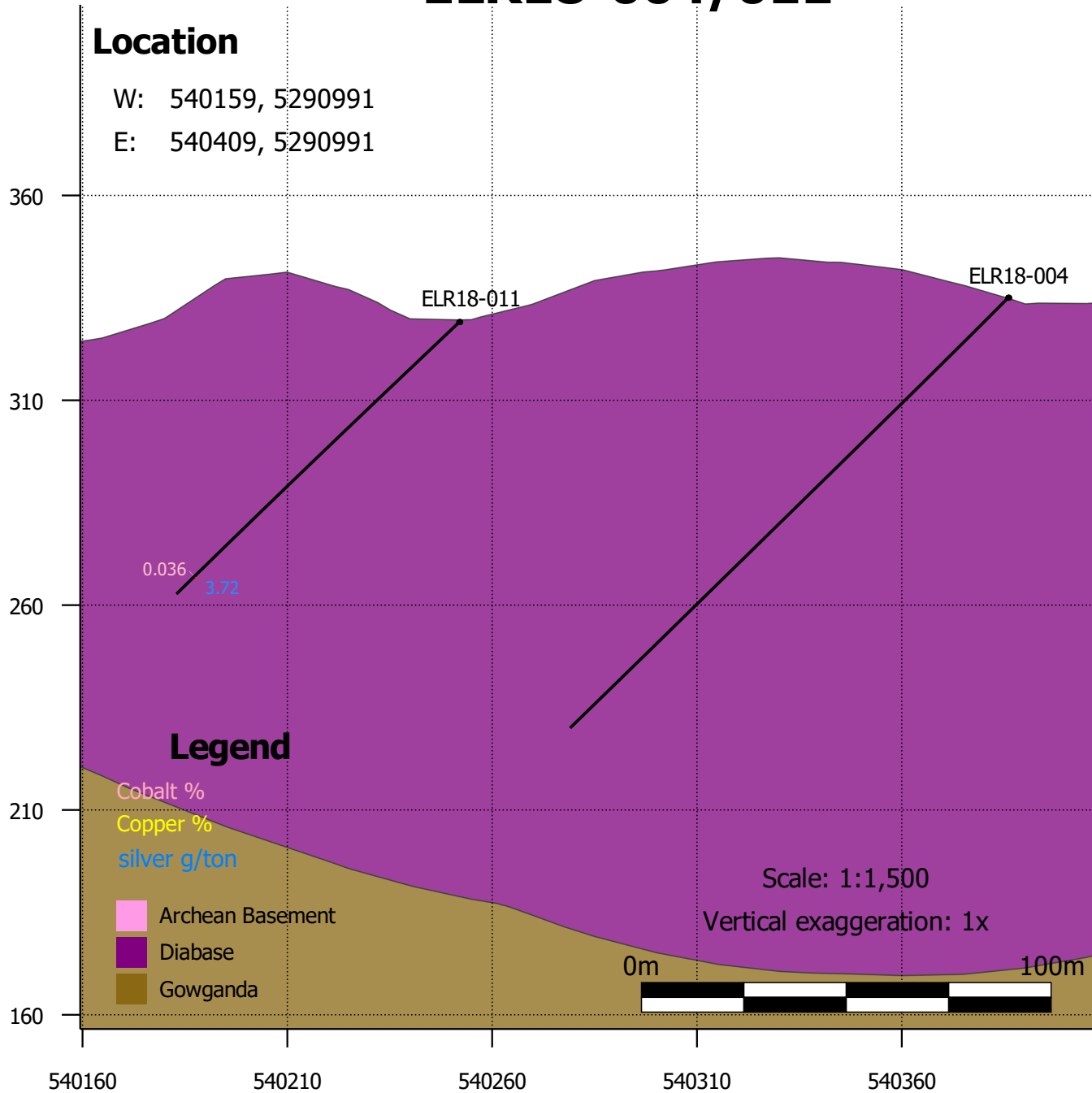
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ELR18-004/011

Location

W: 540159, 5290991

E: 540409, 5290991



Legend

- Cobalt %
- Copper %
- silver g/ton
- Archean Basement
- Diabase
- Gowganda

Scale: 1:1,500

Vertical exaggaration: 1x

0m

100m



ELR18-005/007/010

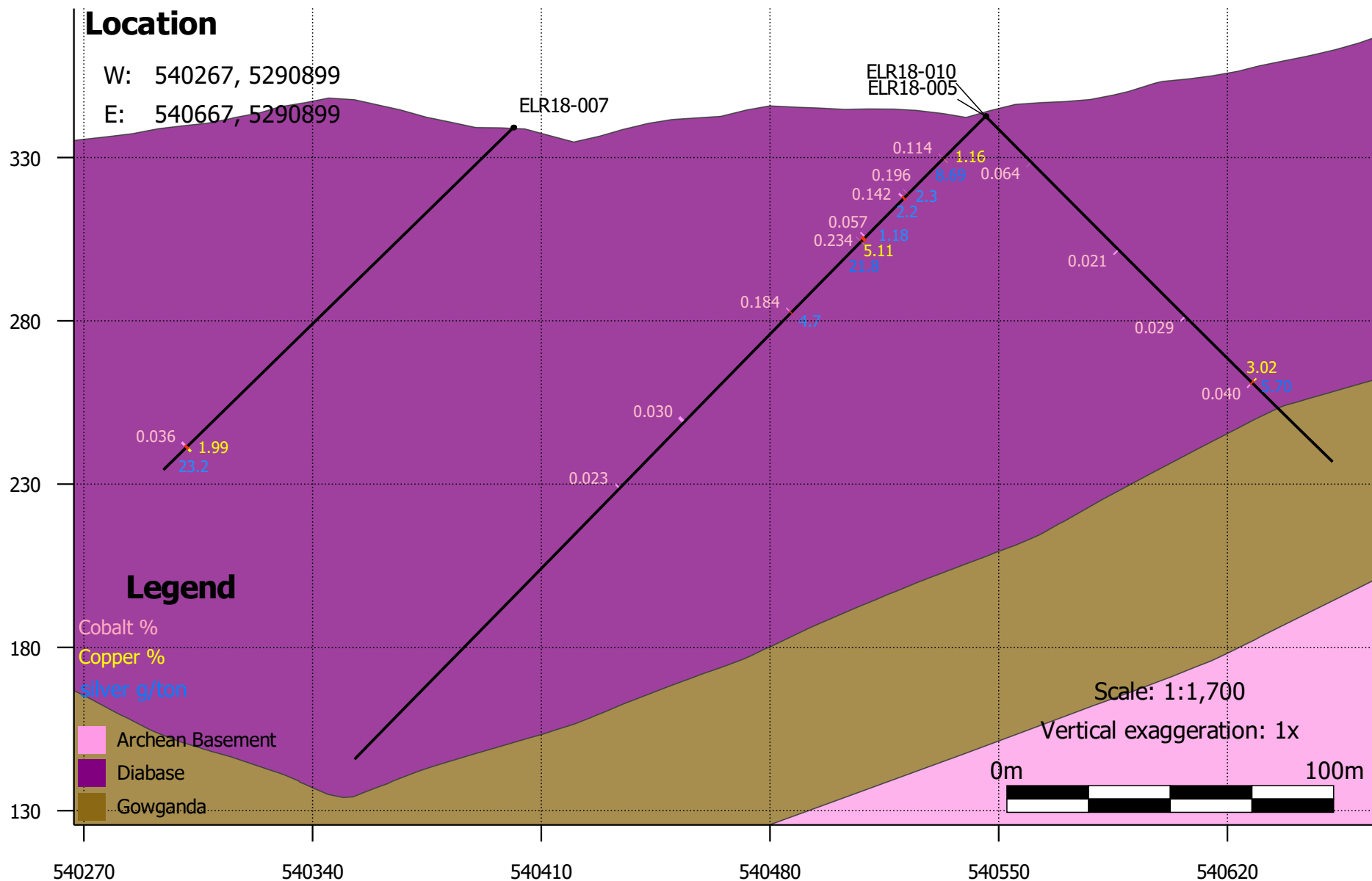
W

E

Location

W: 540267, 5290899

E: 540667, 5290899



W

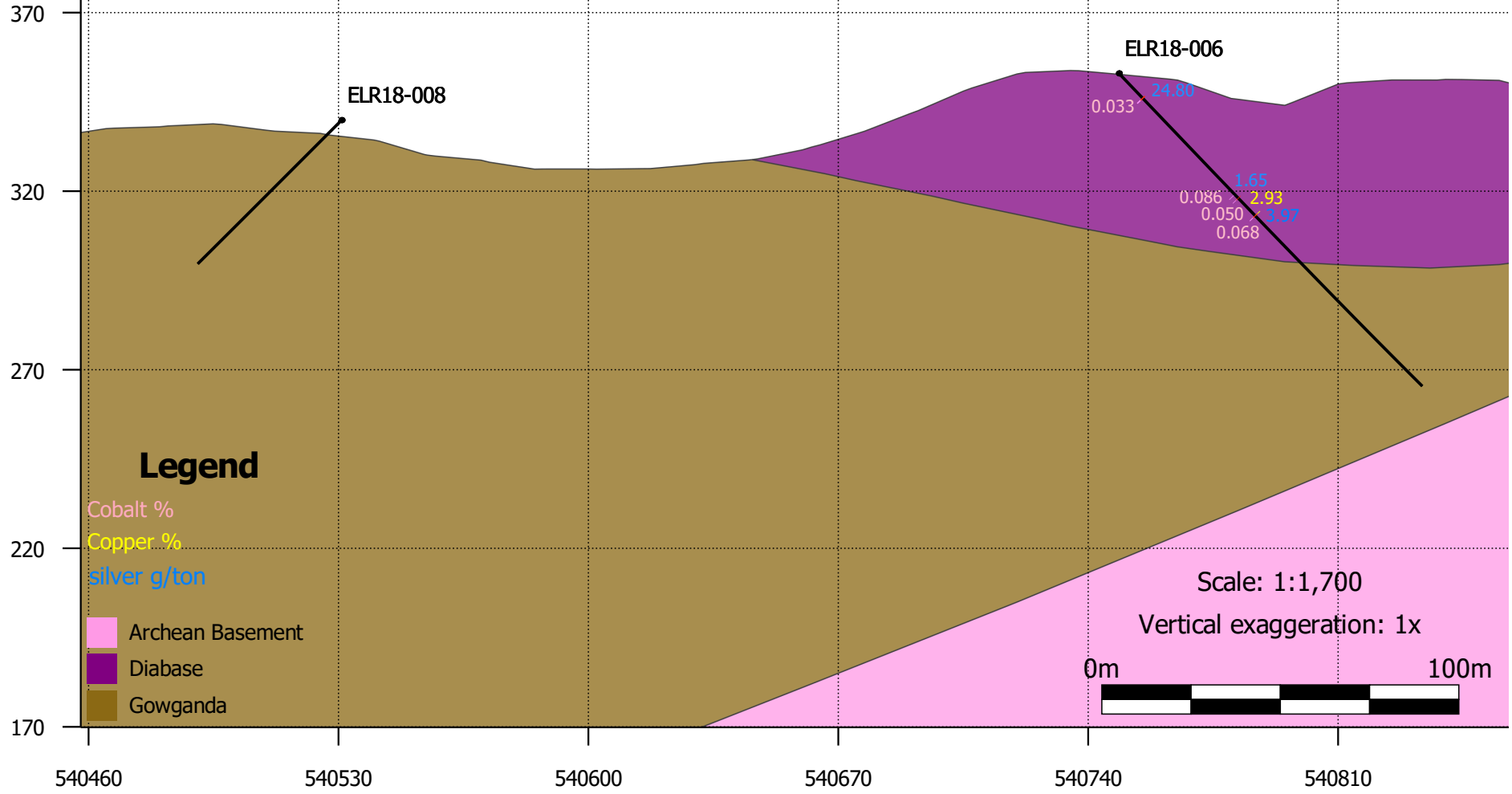
E

ELR18-006/008

Location

W: 540458, 5290332

E: 540858, 5290332



Legend

- Cobalt %
- Copper %
- silver g/ton
- Archean Basement
- Diabase
- Gowganda

Scale: 1:1,700
Vertical exaggeration: 1x



W

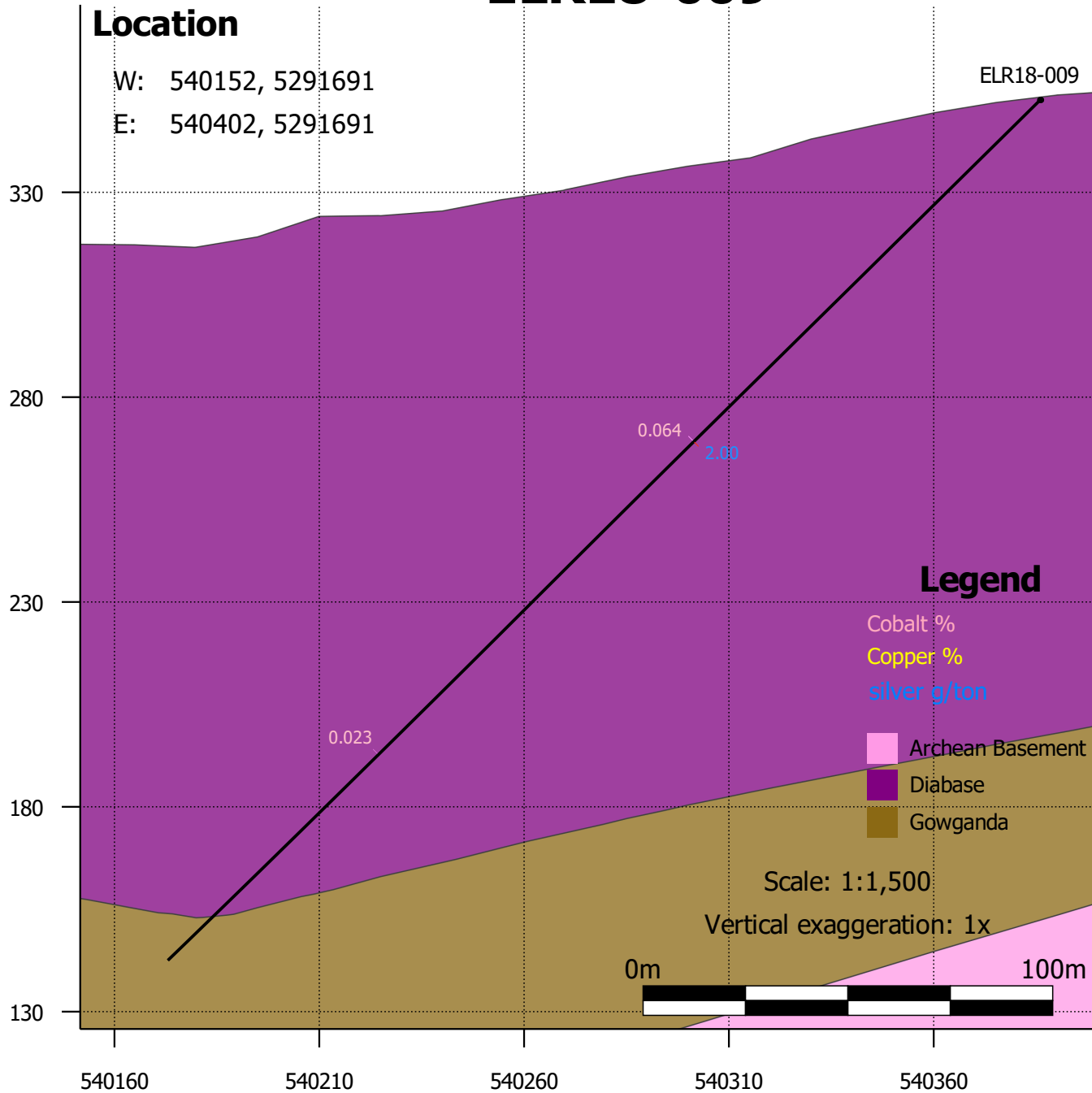
ELR18-009

E

Location

W: 540152, 5291691

E: 540402, 5291691



Legend

- Cobalt %
- Copper %
- silver g/ton
- Archean Basement
- Diabase
- Gowganda

Scale: 1:1,500

Vertical exaggeration: 1x

0m

100m

A

B

ELR18-012/013/014

Location

A: 540065, 5292017

B: 540242, 5291840

