

We are committed to providing [accessible customer service](#).
If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).
Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).



Levack Property Assessment Report

Cameron Bowie, P.Geo
Vale
North American Exploration

November 22, 2017



Contents

<i>Introduction</i>	1
<i>Property</i>	1
Location and Access	1
Property Status.....	1
<i>Exploration Program</i>	1
Diamond Drilling	1
<i>Conclusions & Recommendations</i>	5
<i>Statement of Qualifications</i>	5
<i>Appendix I – Drill hole logs and table of lithology codes</i>	6
<i>Appendix II – Drill hole Plan map</i>	7
<i>Appendix III – Drill hole Cross-section maps</i>	8
<i>Appendix VI – Expenditure Summary</i>	

Introduction

Three drill holes (BH1294180, BH1294190, and BH1294650) totaling 3,081 metres (10,109 feet) were drilled on patented land on Vale's Levack property to explore for a possible extension to the Coleman Upper East ore body. The holes were geologically logged from collar to foot of hole. . None of the holes intersected any mineralization of economic value.

Property

Location and Access

The property on which the boreholes were collared is located approximately 35 km northwest of Sudbury, northeast of the town of Levack near the Coleman Mine site (Figure 1). The collar locations can be accessed from Municipal Road 8, to the Strathcona Mine Road, to the Fraser Mine Road (Figure 2). Access to the collar location is restricted to the public by a controlled gate at Strathcona Mine Road.

Property Status

BH1291480, BH1291490, and BH1294650 are located on patented land held by Vale on lots 3 and 4, concession 3 of Levack township. Assessment credits are being applied to property identification number (PIN) 73342-0030 and (PIN) 73342-0033 (Figure 3).

Exploration Program

Diamond Drilling

BH1291480 was drilled from May 4, 2015 to June 20, 2015, to a depth of 1,143 metres (3,750 ft). BH1291490 was drilled from June 15, 2015 to July 18, 2015, to a depth of 1,033 metres (3,390 ft). BH1294650 was drilled from May 14, 2016 to June 12, 2016, to a depth of 1,128 metres (2,969 ft). All holes were drilled to explore for a potential extension to mineralization in the Coleman Upper East Orebody. The Coleman Upper East Orebody occurs along the Sudbury Igneous Complex norite contact with minor extensions into the footwall granite gneisses. None of the holes intersected any mineralization of economic value. The drill hole logs and table of lithology codes are included in Appendix I, the drill hole plan maps are included in Appendix II, and the drill hole cross-sections are included in Appendix III.

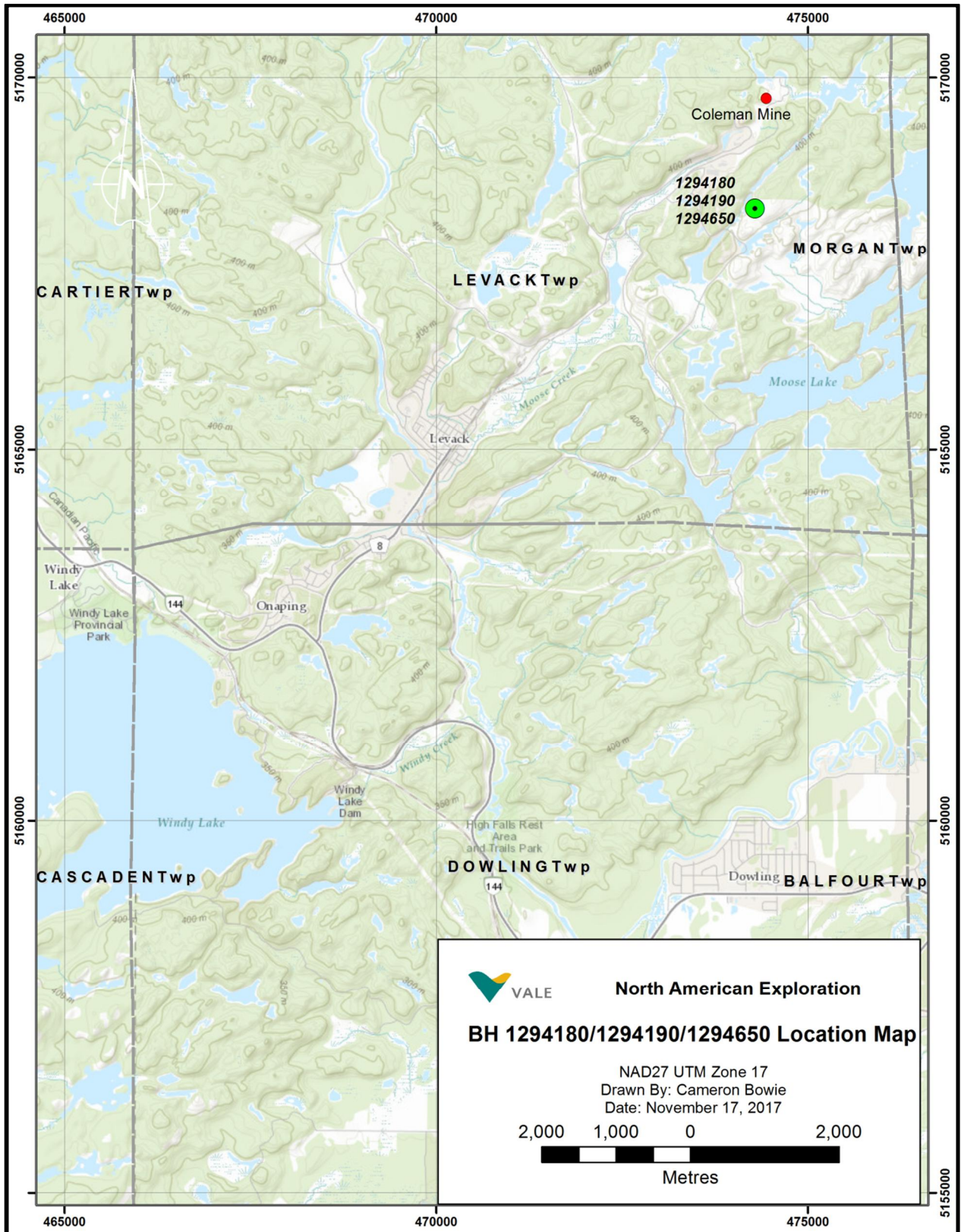


Figure 1. BH's 1294180/1294190/1294650 are located north west of Sudbury in Levack Township near Vale's Coleman Mine

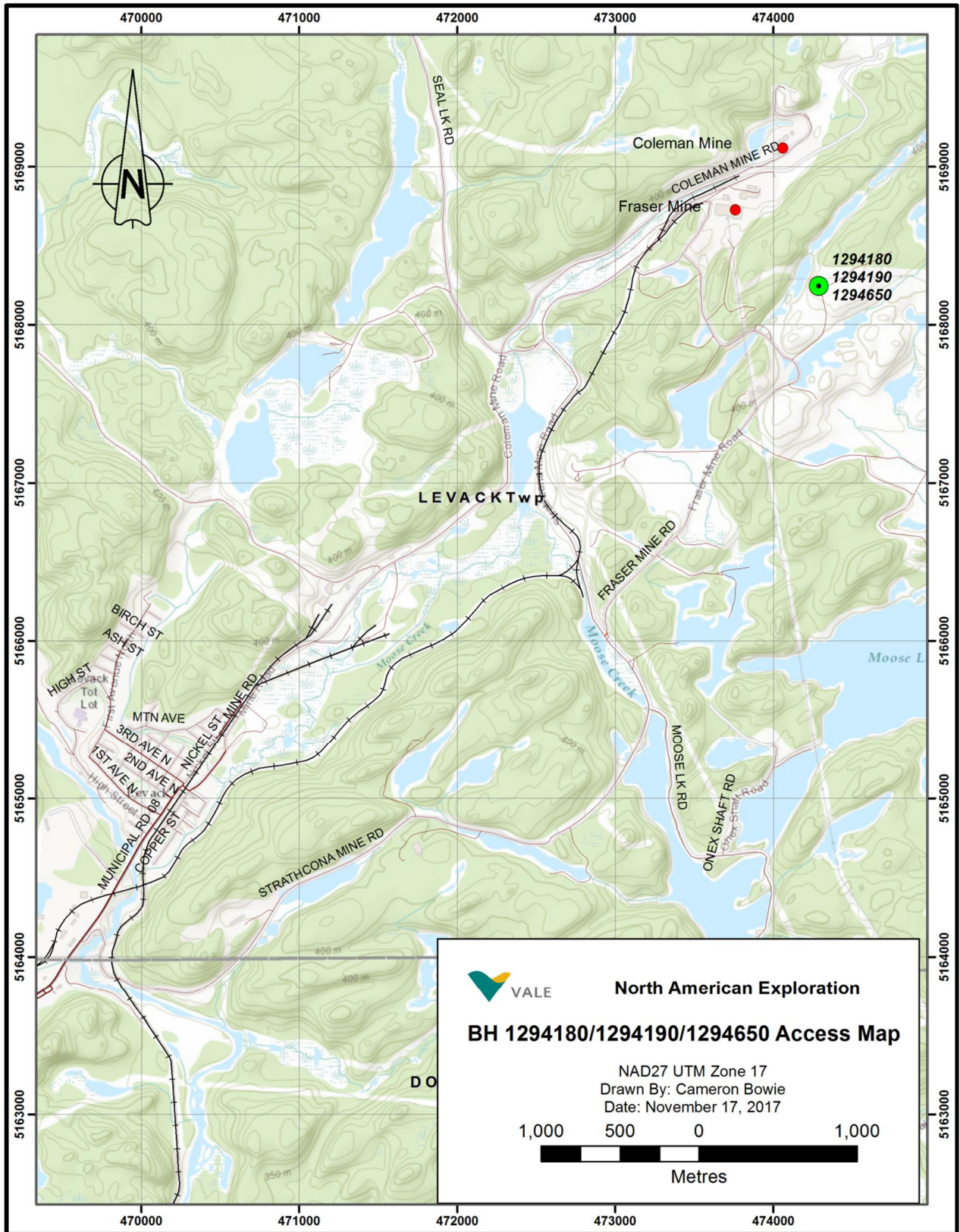


Figure 2. Access to BH's 1294180/1294190/1294650 via Municipal Road 8.

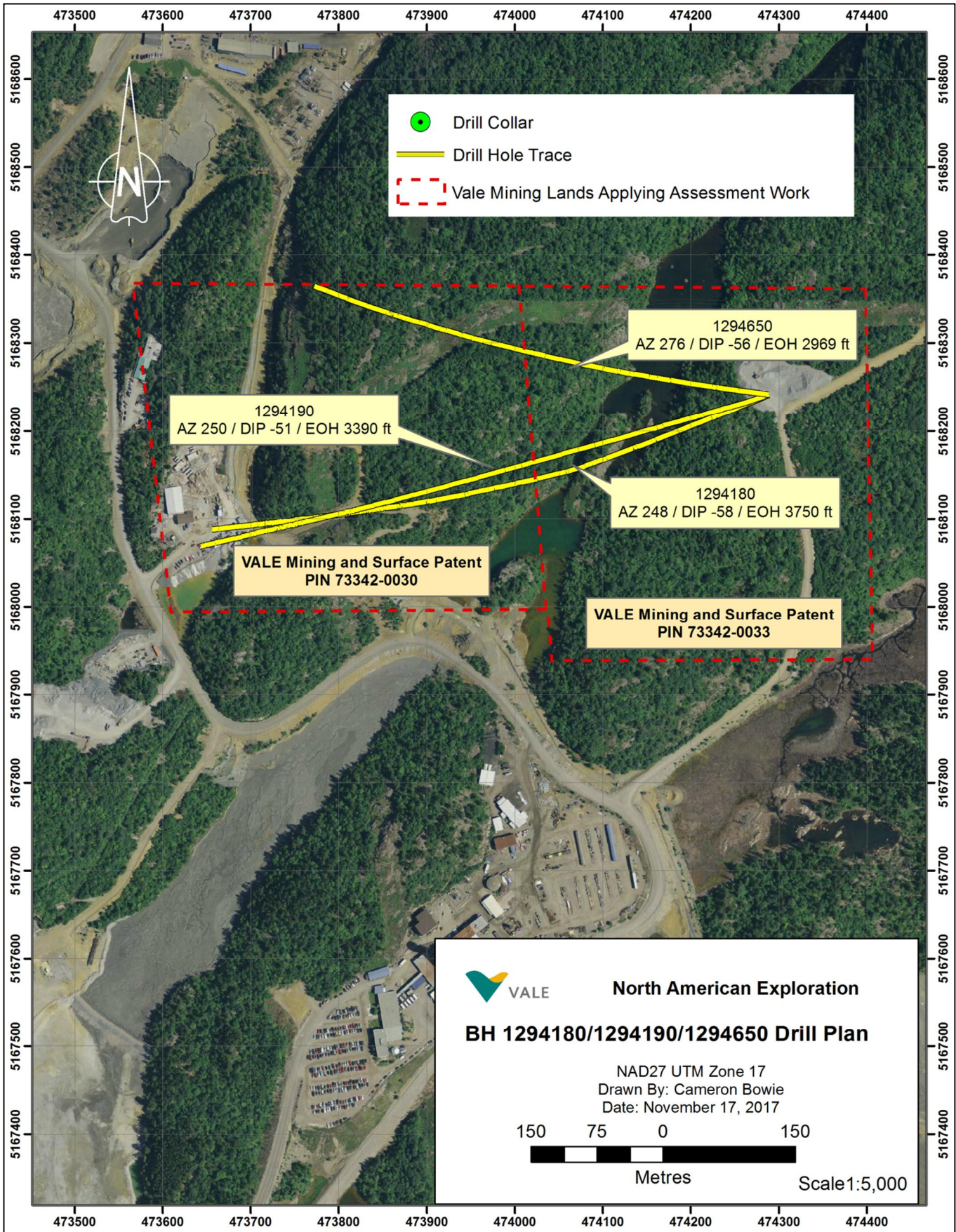


Figure 3. BH's 1294180/1294190/1294650 were drilled in Leveck Twp, Lots 3 and 4, Concession 3, on patent PINs 73342-0030 / 73342-0033.

Conclusions & Recommendations

Based on geological information and lack of significant mineralization intersected in the holes, follow-up drilling was not recommended.

Statement of Qualifications

Statement of Qualifications

I, Cameron Bowie of 761 Corsi Hill, Sudbury, Ontario hereby certify that:

1. I am a 1987 graduate of University of Guelph with a Bachelor degree in Earth Science.
2. I am a professional Geoscientist registered in the province of Ontario with the practising member licence # 0960.
3. I have practised in my profession continuously since 1988.
4. I am currently employed as Principal Geologist with Vale Limited, 337 Power Street, Copper Cliff, Ontario, POM 1N0.
5. I have reviewed the data documented in this report.
6. I am the author of this report.



Cameron Bowie, P.Ge

November 22, 2017

Appendix I – Drill hole logs and table of lithology codes

BOREHOLE 1294180

PROPERTY NAME COLEMAN

PROPERTY TYPE

Mining & Surface Patent PIN's 73342-0033/73342-0030, lot's 3/4 con 3 Levack twp

DEPTH (ft) 3750

COORDS (UTM NAD27 ZN 17) **NORTHING** 5168241

EASTING 474288

ELEV (ft) 1389

CORE SIZE NQ

DRILL CONTRACTOR

Major Drilling

START DATE Thursday May 14, 2015

END DATE

Saturday June 20, 2015

STATUS Complete

CORE STORAGE LOCATION

Copper Cliff Mine Core Farm

Logged by: Jon O'Callaghan

Collar: Picked up with Trimble R8 GPS. Casing pulled upon hole completion

COMMENTS/NOTES

Target being drilled: The first 2015 drill hole at Levack (129418-0), targeting the Coleman Mine Upper East Ore body, drilled to 1143m (3750ft).

No significant mineralization was observed

DIRECTIONAL INFORMATION

DEPTH (ft)	0	16.4042	32.8084	49.2126	65.6168	82.021	98.4252	114.8294	131.2336	147.6378	164.042	180.4462	196.8504	213.2546	229.6588	246.063	262.4672
AZIMUTH	248.27	248.27	247.49	247.1	247.16	247.21	247.24	247.32	247.33	247.35	247.39	247.52	247.58	247.76	247.84	247.91	247.97
DIP	-57.79	-57.79	-57.66	-57.61	-57.58	-57.61	-57.59	-57.57	-57.46	-57.61	-57.45	-57.52	-57.57	-57.46	-57.6	-57.44	-57.39
DEPTH (ft)	278.8714	295.2756	311.6798	328.084	344.4882	360.8924	377.2966	393.7008	410.105	426.5092	442.9134	459.3176	475.7218	492.126	508.5302	524.9344	541.3386
AZIMUTH	248.08	248.28	248.24	248.29	248.37	248.5	248.53	248.57	248.61	248.54	248.26	247.92	248.02	248.14	248.22	248.22	248.28
DIP	-57.54	-57.39	-57.42	-57.5	-57.48	-57.41	-57.37	-57.29	-57.35	-57.27	-57.1	-56.96	-56.87	-56.88	-56.9	-56.93	-56.93
DEPTH (ft)	557.7428	574.147	590.5512	606.9554	623.3596	639.7638	656.168	672.5722	688.9764	705.3806	721.7848	738.189	754.5932	770.9974	787.4016	803.8058	820.21
AZIMUTH	248.33	248.33	248.32	248.3	248.33	248.34	248.39	248.44	248.47	248.55	248.54	248.58	248.61	248.63	248.68	248.73	248.79
DIP	-56.8	-56.85	-56.76	-56.84	-56.85	-56.74	-56.88	-56.7	-56.69	-56.59	-56.56	-56.59	-56.59	-56.65	-56.7	-56.55	-56.53
DEPTH (ft)	836.6142	853.0184	869.4226	885.8268	902.231	918.6352	935.0394	951.4436	967.8478	984.252	1000.656	1017.06	1033.465	1049.869	1066.273	1082.677	1099.081
AZIMUTH	248.82	248.87	248.88	248.93	248.97	248.96	249.02	249.08	249.14	249.21	249.26	249.3	249.35	249.34	249.38	249.42	249.46
DIP	-56.45	-56.53	-56.43	-56.7	-56.68	-56.7	-56.57	-56.61	-56.65	-56.56	-56.59	-56.59	-56.72	-56.5	-56.49	-56.4	-56.39
DEPTH (ft)	1115.486	1131.89	1148.294	1164.698	1181.102	1197.507	1213.911	1230.315	1246.719	1263.123	1279.528	1295.932	1312.336	1328.74	1345.144	1361.549	1377.953
AZIMUTH	249.48	249.52	249.56	249.54	249.59	249.6	249.59	249.7	249.73	249.72	249.77	251.35	251.76	251.53	251.52	251.33	251.22
DIP	-56.46	-56.34	-56.23	-56.35	-56.25	-56.3	-56.16	-56.15	-56.11	-56.12	-56.1	-55.77	-55.92	-56.11	-56.22	-56.38	-56.48
DEPTH (ft)	1394.357	1410.761	1427.165	1443.57	1459.974	1476.378	1492.782	1509.186	1525.591	1541.995	1558.399	1574.803	1591.207	1607.612	1624.016	1640.42	1656.824
AZIMUTH	251.5	253.06	253.2	253.11	253.67	255.42	255.65	255.66	255.93	256.39	256.46	256.63	256.7	256.82	256.88	256.93	256.99
DIP	-56.52	-56.78	-56.92	-56.93	-56.74	-56.75	-56.7	-56.78	-56.31	-55.27	-55.27	-55.22	-55.06	-55.02	-55.26	-54.96	-55.02
DEPTH (ft)	1673.228	1689.633	1706.037	1722.441	1738.845	1755.249	1771.654	1788.058	1804.462	1820.866	1837.27	1853.675	1870.079	1886.483	1902.887	1919.291	1935.696
AZIMUTH	257.02	257.15	257.19	257.27	257.24	257.29	257.31	257.34	257.42	257.5	257.55	257.59	257.61	257.7	257.7	257.74	257.74
DIP	-55.04	-54.95	-54.98	-55.05	-54.98	-54.9	-54.94	-55.02	-54.77	-54.78	-54.7	-54.89	-54.7	-54.75	-54.66	-54.61	-54.56
DEPTH (ft)	1952.1	1968.504	1984.908	2001.312	2017.717	2034.121	2050.525	2066.929	2083.333	2099.738	2116.142	2132.546	2148.95	2165.354	2181.759	2198.163	2214.567
AZIMUTH	257.83	257.9	257.97	257.99	257.96	258.02	258.07	258.06	258.13	258.19	258.29	258.35	258.38	258.43	258.58	258.75	258.88
DIP	-54.72	-54.42	-54.58	-54.49	-54.59	-54.68	-54.53	-54.59	-54.37	-54.53	-54.47	-54.6	-54.48	-54.48	-54.37	-54.48	-54.34
DEPTH (ft)	2230.971	2247.375	2263.78	2280.184	2296.588	2312.992	2329.396	2345.801	2362.205	2378.609	2395.013	2411.417	2427.822	2444.226	2460.63	2477.034	2493.438
AZIMUTH	259	259.13	259.27	259.25	259.37	259.47	259.55	259.64	259.73	260	260.06	260.18	260.35	260.47	260.64	260.77	260.89
DIP	-54.17	-54.29	-54.21	-54.22	-54.1	-54.14	-54	-54.03	-54.09	-53.96	-54	-54	-53.85	-53.87	-53.83	-53.89	-53.99
DEPTH (ft)	2509.843	2526.247	2542.651	2559.055	2575.459	2591.864	2608.268	2624.672	2641.076	2657.48	2673.885	2690.289	2706.693	2723.097	2739.501	2755.906	2772.31
AZIMUTH	261	261.14	261.24	261.4	261.46	261.52	261.66	261.66	261.67	261.74	261.76	261.82	261.79	261.83	261.84	261.88	261.96

LOG

DEPTH	LENGTH	RQD	ORE	MINOR ROCK	ROCK	DESCRIPTION
0	0					Collar
28.7	28.7	0	NVS		CASE	TOP OF HOLE. CASING TO 28.7'. SMALL <0.5 FT BROKEN BLOCKS OF FSNR, GRPH AND QV MATERIAL. RUSTING ALONG FRACTURE PLANES AND ON SURFACES OF THE BLOCKS.
34	5.3	80			FSNR	PALE GREY GREEN FSNR WITH FLDSPR PHENOCRYSTS UPTO 3MM ALONG LONG AXIS, IN AN AMPH PYX CHL BIO MTX. CORE BROKEN AND BLOCKY W FRACTS AT 50-90 DEG TCA INFILLED W LIGHT GREY CLAY INFILL.
283	249	98	TR		FSNR	HOMOGENOUS INTERVAL OF PALE GREY GREEN MOD MAGNETIC FSNR SIMILAR TO ABOVE UNIT, W RELATIVELY EVENLY SPREAD FRACTS THROUGHOUT CORE. FRACTS AT 85 60 AND 40 DEG TCA, CONTAINING CHLORITIC CLAY INFILL. SOME RARE CHL VEINS (E.G. 77') AT 10 DEG TCA, HOST RARE, FG PO. FLDSPR IN FSNR SHOWS A SUBTLE ORIENTATION AT 30-40 DEG TCA. AT 168-170' CHL FILLED FRACT CONTAINING CHL, CLAYS AND TR PY. A VERY SUBTLE FINING DOWNHOLE FROM 193.6' ONWARDS.
292	9	35			DIA	FINE GRAINED, GREEN GREY, MOD MAGNETIC DIA INTRUSION. CORE IS BROKEN AND BLOCKY WITH CHL FRACTS. FRACTS OBSCURE CONTACTS W COUNTRY ROCK. FRACTS AVG ORIENTATION AT 20 AND 60 DEG TCA.
400.7	108.7	80			FSNR	CONTINUATION OF FSNR UNIT FROM OVERLYING INTERVAL. UNIT CONTAINS LENSES OF COARSER FSNR WITH GRADATIONAL BOUNDARIES POS CUMULATE MATERIAL? UNIT REGULARLY CROSS CUT BY CHL FRACTS AT 50 AND 20 DEG TCA. PINK POTASSIC ALT OF FLDSPR IN PATCHES THROUGHOUT INTERVAL.
426.5	25.8	75	TR	EPID	FSNR	ALTD FSNR WITH PINK POTASSIC ALT THROUGHOUT ASSOC W NUMEROUS CROSS CUTTING SPLAYED CHL AND RARE EPID VEINS <1CM WIDE AT 65 20 DEG TCA(EPI VEINS USUALLY AT HIGH DEG TCA THAN CHL VEINS). RARE, VFG, DISS PO. ALT INCREASES DOWNHOLE, FROM 420' THE PROTOLITH ALMOST COMPLETELY REPLACED BY CHL ALT.
435.4	8.9	0	TR	ALTN	FLT	BROKEN, RUBBLY CORE WITH PERVASIVE IRON OXIDE STAINING AND CHL ALT THROUGHOUT. SOME FAULT GOUGE MATERIAL W CLAYS, QTZ FRAGS AND POSS RUSTY SULPH SPECKS. SOME CHL EPI VEINS IN LARGER ROCK FRAGS.
534	98.6	80			FSNR	CONTINUATION OF FSNR UNIT FROM OVERLYING INTERVAL, PINK POTASSIC ALT DEC DOWNHOLE AWAY FROM FAULT AT 435.4. CHL FRACTS THROUGHOUT AT 50, 80 AND 60 DEG TCA. RARE QTV <1CM AT 60 DEG TCA E.G. AT 475'. AT 480' QTV IS INFILLING A FRACT W IRON STAINING AND EUHEDRAL PEGMATITES OF PRISMATIC QTZ.
673.2	139.2	98			FSNR	GRADATIONAL CONTACT INTO A COARSER FSNR UNIT, SAME COMPOSITION AS OVERLYING FSNR. FEWER EUHEDRAL MINERALS AND NO DEFINED FABRIC OR ORIENTATION TO MINERALS. PATCHES OF PINK POTASSIC ALT AND CHL FILLED FRACTS.
676.2	3	60	NVS	FSNR	EPID	CG FSNR OVERPRINTED BY PINK POTASSIC AND GREEN EPI ALT ASSOC W CROSS CUTTING SPLAYED QTV UPTO 1 INCH WIDE WITH HAEMATITE STAINING. QTV AT 60 DEG TCA.
715.2	39	98	NVS		FSNR	CONTINUATION OF OVERLYING FSNR UNIT. NO FABRIC ORIENTATION AND DECREASING PINK POTASSIC ALT DOWNHOLE.
744	28.8	98			FSNR	SHARP CONTACT INTO A CG EUHEDRAL FLDSPR RICH FSNR, (APPROX 50-60% OF ROCK). FLDSPR POTASSIC ALTD TO PINK COLOUR, NO FABRIC ORIENTATION. UNIT CROSS CUT BY SPLAYED <MM CHL VEINS AT 60 DEG TCA. SOME CHL FILLED FRACTS TOO.
745.5	1.5	95			NR	DARK GREY GREEN INCLUSION(?) OF NR, MORE MAFIC AND MAGNETIC THAN ADJACENT FSNR. SARP CONTACTSM, BUT POS PARTIAL MELTING / ASSIMILATION?
834.9	89.4	98	NVS		FSNR	GREY GREEN FSNR, LOWER FELSIC MINERAL COMPONENT THAN OVERLYING FSNR UNITS BUT STILL CONTAINS UNALTERED FLDSPR AT 30-40% OF UNIT, W OCASIONAL QTV <1CM AT 70 DEG TCA. FRACTS LESS COMMON, FILLED W CHL CLAYS, MOSTLY >40 DEG TCA.
838.5	3.6	100	NVS		FSNR	QUARTZ VEIN 1 INCH WIDE AT 50 DEG TCA, WITH PERVASIVE GREEN SAUSS ALTD FLDSPR IN THE FSNR 3-4 INCHES ADJ TO VEIN. SEVERAL SMALLER <CM QTV CROSS CUT AT 50 DEG TCA IN FSNR.
864.8	26.3	95	NVS		FSNR	CONTINUATION OF OVERLYING FSNR UNIT. SOME PATCHES W HIGHER FELSIC COMPONENT. RARE PINK POTASSIC ALT ASSOC WITH <5MM CHL EPI VEINS AT 70 DEG TCA.
974.1	109.3	98	TR		FSNR	GRADATIONAL CONACT INTO FSNR W HIGHER FELSIC MINERAL COMPONENT (AVG 40-50% OF UNIT) WITH OCASIONAL PINK POTASSIC ALT ASSOC WITH CHL/EPI <5MM VEINS AT 60 DEG TCA. NO FABRIC ORIENTATION OBSERVED. TR VFG DIS PO IN GREEN EPI ALT ADJ TO QTZ, HAEMATITE. VEIN AT 50 DEG TCA.

978	3.9	50		FLT	FSNR	FSNR, SIMILAR OVERLYIN UNIT BUT CORE BROKEN AND BLOCKY DUE TO CHL AND CLAY INFILLED FRACTS AT >80 AND <10 DEG TCA. NO ASSOC SULPH.
995.5	17.5	98			FSNR	CONTINUATION OF GREY GREEN FSNR, NO FABRIC ORIENTATION. UNIT CROS CUT BY <5MM CHL VEINS W ASSOC PIBNK POTASSI ALT, AT 30 DEG TCA.
999	3.5	100	NVS		FSNR	FSNR UNIT W PINK POTASSIC, GREEN SAUSS AND SILICIC ALT ZONES ASSOC W CROSS CUTTING QTZ VEINS AT 55 DEG TCA.
999.7	0.7	100	TR	QV	FSNR	CONTINUATION OF OVERLYING UNIT. 999.0' <1CM WIDE GREY QTV VEIN W <1CM BLACK CHL ALT MARGIN. VEIN CONTAINS DISS PO. SULPH HAS BOTH BLOCKY AND PARTIALLY MELTED TEXTURE, REMOBILISED? VEIN AT 40 DEG AND DIPS IN DIFFERENT DIRECTION TO LATER, CROS CUTTING, BARREN QTV
1004	4.3	98	NVS		FSNR	CONTINUATION OF MG FSNR UNIT, GREEN GREY W PINK POTASSIC ALT ASSOC W CROSS CUTTING <MM CHL VEINS AT 30 DEG TCA.
1190.7	186.7	85	NVS		FSNR	GREY GREEN HOMOGENOUS FSNR, W NO FABRIC. CROSS CUT BY CHL AND CLAY FILLED FRACTS AT 60 AND 20 DEG TCA. RARE PATCHES OF PINK POTASSIC ALT ASSOC W CROSS CUTTING <1CM EPI VEINS AT 30 DEG TCA. RARE QCCV <5MM WIDE AT 65 DEG TCA.
1193.3	2.6	60	TR	EPID	FSNR	PINK POTASSIC ALTD FSNR ASSOC W GREEN EPI VEIN AND CHL CLAYS AT 20 DEG TCA, FRACT INFILL. POTASSIC ALT MORE EXTENSIVE THAN EPI. RARE VFG PY ALONG FRACT PLANE.
1215.1	21.8	90	NVS		FSNR	CONTINUATION OF OVERLYING FSNR WITH NO POTASSIC ALT OBSERVED. FROM 1207' CORE BROKEN BY CHL CLAY FILLED FRACTS AT 40 DEG TCA.
1226.8	11.7	90	NVS		FSNR	SIMILR TO OVERLYING UNIT BY WITH A DISCRETE GRADATIONAL INCREASE IN FLSPR CONTENT, RESULTING IN A LIGHTER GREY GREEN COLOUR. GRADES BACK INTO MED GREY GREEN FSNR AT BASE OF INTERVAL.
1260.2	33.4	98	NVS		FSNR	CONTINUATION OF MED GREY GREEN FSNR. NO ALT OBSERVED. UNIT CROSS CUT BY REGULAR FRACTS AT 50 DEG TCA, INFILLED BY CHL AND CLAYS.
1276.6	16.4	70	NVS		FSNR	SIMILAR TO ABOVE FSNR UNIT, BUT WITH INCREASED FRACT DENSITY. FRACTS AT 35 AND 55 DEG TCA, INFILLED W CHL CLAYS. CORE BLOCKY AND BROKEN IN PARTS. SLICKENLINES ON SOME FRACT PLANES.
1286.9	10.3	95	NVS	WDG	FSNR	CONTINUATION OF MED GREY GREEN FSNR, FRACT DENSITY LOWER, W REGULAR CHL FRACTS AT 40 DEG TCA. WEDGED AT 1286.1'.
1295.9	9	0			LC	LOST CORE.
1346.2	50.3	95			FSNR	CONTINUATION OF MED GREY GREEN FSNR W CHL CLAY FACTS AT 55 DEG TCA, WHICH DECREASE IN FREQUENCY DOWNHOLE.
1394.3	48.1	95	NVS		DIA	DARK GREY GREEN DIA INTRUSION W FINING CHILLED MARGINS. UPPER CONTACT AT 40 DEG TCA, LOWER OBSCURED (SEE NEXT INTERVAL). CROSS CUT BY <5MM CHL, EPI VEINS WITH ALT IN ADJ DIA. VEINS AT 50 DEG TCA. OCCASIONAL FRACTS AT 20 EG TCA. NO SULPHS OBSERVED.
1401.4	7.1	75	NVS	FLT	DIA	CONTINUATION OF DARK GREY GREEN DIA UNIT. AT 1394.3' AND 1400.5' CORE BROKEN AND RUBBLY, RED IRON OXIDE STAINING AND CHL SUGGESTINGS 2 FAULT. LOWER ONE RUNS THROUGH CONTACT BETWEEN DIA ND FSNR COUNTRY ROCK. NO SULPHS OBSERVED.
1463.2	61.8	90	NVS		FSNR	MED GREEN GREY FSNR, SIMILAR TO OVERLYING UNITS. CHL CLAY FRACTS CROSS CUT AT 50 AND 20 DEG TCA, RARE <5MM QTV CROS CUT AT 40 DEG TCA. NO ASSOC SULPHS. WEDGE AT 1463.2.
1468.5	5.3	0			LC	WEDGE. LOST CORE.
1479.2	10.7	98			FSNR	CONTINUATION OF FSNR FROM OVERLYING UNIT, W CHL CLAY FRACTS AT 20 35 DEG TCA.
1481	1.8	80	NVS		FSNR	MG FSNR, SIMILAR TO OVERLYING UNITS, BRACKET SAMPLE. DIFFUSE PINK POTASSIC ALT THROUGHOUT ASSOC VEIN IN NEXT INTERVAL. NO SULPHS OBSERVED.
1481.9	0.9	70	TR	EPID	FSNR	FSNR, ALTD BY CROSS CUTTING GREEN EPI VEIN AT 45 DEG TCA. VEIN APPROX 1 CM WIDE W DIFFUSE MARGINS, A <1MM QTV VEIN RUNS THROUGH CENTRE OF EPI ZONE, AND THERE IS A WIDER ZONE OF DIFFUSE PINK POTASSIC ALT WITHIN THE COUNTRY ROCK. FG (UPTO 4X5MM) DISS PY AND PO WITHIN THE EPI ALT. CORE BROKEN BY MM CHL CLAY FRACTS.
1483.6	1.7	20	TR		FSNR	POTASSIC ALTD PINK GREY FSNR WITH CHL CLAY FRACTS THROUGHOUT AT 40-60 DEG TCA. ALT ASSOC W EPI VEIN IN OVERLYING INTERVAL. RARE, VFG DISS PO WITHIN EPI ALT ADJ TO FRACTS.
1485.7	2.1	100	NVS		FSNR	MED GREY GREEN FSNR, NO FABRIC ORIENTATION. SLIGHT PINK POTASSIC ALT AT TOP OF INTERVAL.

1525.7	40	98			FSNR	MED GREY GREEN FSNR, NO FABRIC ORIENTATION. UNIT CROSS CUT BY RARE CHL CLAY FILLED FRACTS AT 20 DEG TCA. NO ASSOC SULPHS.
1529.4	3.7	0			LC	WEDGED.
1671.7	142.3	98			FSNR	CONTINUATION OF GREY GREEN FSNR WITH OCCASIONAL GREEN CHL CLAY FILLED FRACTS AT 30, 50 AND 70 DEG TCA. CORE PARTICULARLY BROKEN AND FRACTURED AROUND 1620' AND 1640'.
1673.5	1.8	100	NVS		FSNR	CONTINUATION OF FSNR WITH CHL CLAY FRACT AT 10 DEG TCA.
1674.7	1.2	90	NVS		FSNR	FSNR, PINK GREY COLOUR DUE TO POTASSIC ALTD FELDSPR ASSO W CROSS CUTTING CHL EP VEIN IN NEXT SAMPLE INTERVAL. <1MM CHL VEINS CROSS CUT UNIT AT 30 DEG TCA.
1675.7	1	80	VNLT	QCCV	FSNR	POTASSIC ALTD PINK FSNR WITH CROSS CTING PINK GREY QCCV. QTZ RIM WITH CHL AND PO INFILLING CENTRE OF VEIN. GREEN EPI ALT ADJ TO VEIN CONTAINS CP. VEIN AT 30 DEG TCA. CORE BROKEN BY CHL CLAY AND CARBONATE FILLED FRACTS AT 20 EG TCA.
1677.9	2.2	98	NVS		FSNR	UNALTD MED GREY GREEN FSNR, NO SULPHS PRESENT. UNIT CROSS CUT BY CL CLAY INFILLED FRACTS AT 20 DEG TCA.
1810.6	132.7	80	NVS		FSNR	MED GREY GREEN, HOMOGENOUS FSNR WITH OCCASIONAL CLUSTERS OF CHL CLAY INFILLED FRACTS AT 40 TO 50 DEG TCA. NO SULPHS OBSERVED. CORE BROKEN IN SOME SECTIONS (<0.5FT) POS FAULTS OR PUSHING BY DRILL E.G. 1700'.
1811.4	0.8	98	NVS	FLT	FSNR	PINK GREY POTASSIC ALTD FSNR ASSOC WITH FAULT AT 1811'. FAULT CONTAINS FG BRECCIA WITH A GREEN CHL CLAY MTX. FAULT AT 20 DEG TCA.
1842.5	31.1	95			FSNR	CONTINUATION OF GREEN GREY FSNR W CHL CLAY FRACTS AT 40-50 DEG TCA. NO ALT.
1851.6	9.1	50	NVS		FSNR	FSNR SIMILAR TO ABOVE UNIT. CORE BROKEN AND BLOCKY AT BY CHL CLAY FILLED FRACTS AT 90 AND <10 DEG TCA. NO ASSOC SULPHS.
1890	38.4	95			FSNR	SIMILAR TO ABOVE MED GREY GREEN FSNR, LESS FRACTURED THAN ABOVE UNIT. OCCASIONAL CHL FILLED FRACTS AT 20-30 DEG TCA. CORE BLOCKY AND BROKEN IN SOME SECTIONS (<1FT).
1925.2	35.2	70			FSNR	CONTINUATION OF ABOVE FSNR UNIT BUT WITH HIGHER FRACT DENSITY RESULTING IN BROKEN, BLOCKY CORE E.G. AT 1910'. FRACTS INFILLED W GREEN GREY CHL CLAY. FRACTS AT 50 DEG TCA. RARE PATCHES OF POTASSIC ALT.
1959.2	34	98			FSNR	CONTINUATION OF MED GREY GREEN FSNR, WITH LOWER FRACT DENSITY THAN ABOVE UNIT. GREEN CHL CLAY INFILLED FRACTS AT 20-30 DEG TCA.
1962.6	3.4	98	NVS	EPID	FSNR	PINK GREY POTASSIC ALTD FSNR. ALT ASSO WITH CG CARBONATE-EPI VEINS UPTO 1CM WIDE AT 25 DEG TCA. SOME GREY CHL ALT PATCHES ADJ TO EPI VEINS. NO ASSOC SULPHS.
2061.2	98.6	100	NVS		FSNR	CONTINUATION OF MED GREEN GREY FSNR, CROSS CUT BY CHL CLAY FRACTS AT 25 DEG TCA. AT 2054' WEDGE PLUG.
2093.2	32	80			FSNR	MED GREY GREEN FSNR, SIMILAR TO ABOVE UNIT. CORE BROKEN AND BLOCKY DUE TO INCREASE FREQUENCY OF CHL CLAY FILLED FRACTS AT 90 AND 25 DEG TCA.
2112.8	19.6	95			FSNR	CONTINUATION OF MED GREY GREEN FSNR UNIT W REDUCED FRACT FREQUENCY. FRACTS CHL CLAY FILLED AT 15-40 DEG TCA.
2130	17.2	60	NVS		FSNR	CONTINUATION OF MED GREY GREEN FSNR, CORE BROKEN BY CHL CLAY FRACTS AT 25 AND <10 DEG TCA.
2152.5	22.5	80	TR		FSNR	CONTINUATION OF MED GREY GREEN FSNR, WITH LOWER DENSITY OF CHL CLAY FRACTS. MOST CROSS CUT AT 60 DEG TCA. VERY RARE, VFG DISS PO.
2153.5	1	70	NVS	EPID	QCV	POS FLT PLANE AT 40 DEG TCA. INFILLED AND CEMENTED BY GREY PINK COLOURED QCV WITH ASSOC GREEN EPI ALT. ADJ FSNR PINK GREY POTASSIC ALTD. NO SULPHS OBSERVED.
2209.8	56.3	70	TR	FLT	FSNR	CONTINUATION OF MED GREY GREEN FSNR WITH VERY RARE, VFG DISS PO. CORE FRAGMENTED AND BROKEN BY NUMEROUS CHL CLAY FILLED FRACTS, SOME W SLICKENLINES. FRACTS AT 70, 40 AND 30 DEG TCA. POS FAULT BETWEEN 2200 AND 2210'. FLT GOUGE. RARE PATCHES OF PINK POTASSIC ALT.
2338	128.2	90	TR		FSNR	CONTINUATION OF HOMOGENOUS MED GREY GREEN FSNR WITH V RARE VFG DISS PO AND CP. CORE LESS BROKEN THAN OVERLYING UNIT WITH CHL CLAY INFILLED FRACTS AT 45-60 DEG TCA. SLIGHT COLOUR CHANGE TO 'MORE GREENISH' PROXIMAL TO <5MM EPI VEIN AT 2228.5'. VEIN AT 60 EG TCA WITH SOME PINK POTASSIC ALT IN ADJ FLDSPR. GREEN COLOURATION IN FSNR APPROX 1FT EITHER SIDE OF VEIN.
2341.9	3.9	70	TR	EPID	FSNR	CONTINUATION OF MG, EQUIGRANULAR FSNR. COLOUR MORE GREEN-YELLOW DUE TO PERVASIVE EPID ALT ASSO W GREEN, SPLAYED, EPID AND CHL VNLTs AT 30 DEG TCA, WHICH HOST MG, DISS PY AND RARE CP. AT 2338.2 GREY QV W ELONGATE CHL ALONG MARGINS, ALSO HOSTS DIS PY. QV AT 70 DEG TCA.

2382.6	40.7	90	TR		FSNR	MED GREY-GREEN, MG, HOMOGENOUS, EQUIGRANULAR FSNR CROSS CUT BY OCCASIONAL <CM DARK GREEN CHL VNLTS AT 20 DEG TCA. EPID ALT ASSOC W VNLTS. RARE, VFG-FG DISS PO AND CP IN FSNR MTX. GREEN CHL FILLED FRACTS AT 25-40 DEG TCA. SLIGHT FINING OF FSNR GRAIN SIZE DOWN HOLE. POS ASSOC W UNDERLYING CONTACT W MFGN.
2403.7	21.1	90	TR		MFNR	GRADATIONAL CONTACT OVER APPROX 10 FT FROM FSNR TO DARKER GREY, FINER GRAINED MFNR W DISS, FG PO AND POS RARE, VFG PY OR CP IN MFNR MTX. FRACTS AT 30 DEG TCA. MTX REL RICH IN FG DISS SULPH.
2405.8	2.1	20	TR	STRT	MFNR	CONTINUATION OF MFNR UNIT, W MORE PERVASIVE GREEN CHL ALT ASOC W SEVERAL FLTS/STRTS THAT CROSS CORE AT 15 AND 50 DEG TCA, W FG GRAVEL AND CHL CLAY FLT GOUGE INFILL. CORE BROKEN AND POORLY CEMENTED. TR, FG PO IN MFNR MTX.
2432.7	26.9	95	TR		MFNR	CONTINUATION OF FG-MG, DARK GREY, MOD MAGNETIC MFNR W TR DISS PO IN MFNR MTX. UNIT CROSS CUT BY FRACTS AT 40 DEG TCA. OCCASIONAL QFV AND PATCHES THROUGHOUT UNIT, VNS UP TO 1 INCH WIDE W MAFIC INCLUS AT 40 DEG TCA. NO ASSOC SULPHS.
2433.4	0.7	100	TR	EPID	MFNR	CONTINUATION OF DARK GREY MFNR UNIT. CROSS CUT BY SPLAYED GREEN GREEN EPID VNS 2.5CM AND 1 CM WIDE AT 60 DEG TCA HOSTING QTZ INCLU AND W GREEN EPID ALT IN ADJ MFNR. NO ASSOC SULPHS. TR DISS PO IN MFNR MTX.
2483.2	49.8	95	TR		MFNR	CONTINUATION OF MFNR, DARK GREY (AND INC MAFIC DOWNHOLE), MAGNETIC, MG-FG UNIT W TR DISS PO AND RARE FG PY/CP IN MTX. UNIT CROSS CUT BY FRACTS AT 40 DEG TCA AND AT 2457'5 BY AN EPID VN W GREEN ALT ZONES UPTO 1 INCH WIDE IN ADJ MFNR. VNLTS AT 50 DEG TCA W RARE ASSOC PY SPECKS. MFNR UNIT RELATIVELY HOMOGENOUS.
2488.5	5.3	98	TR		FSNR	LIGHTER GREY, COARSER GRAINED, FSNR INCLU WITHIN MFNR UNIT. CONTACTS ARE SHARP BUT UNDULOSE AT APPROX 40 DEG TCA. RARE, FG, DISS PO IN FSNR MTX. UNIT CROSS CUT BY DARK GREEN, <MM CHL VNLTS AT 30-40 DEG TCA W LIGHT GREY GREEN EPID ALT IN ADJ FSNR. NO ASSOC SULPHS.
2490	1.5	90	TR		MFNR	LIGHTER GREY, COARSER GRAINED, FSNR INCLU WITHIN MFNR UNIT. CONTACTS ARE SHARP BUT UNDULOSE AT APPROX 40 DEG TCA. RARE, FG, DISS PO IN FSNR MTX. UNIT CROSS CUT BY DARK GREEN,
2500	10	90	DISS		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2510	10	95	DISS		MFNR	CONTINUATION OF MED GREY, COARSER GRAINED, FSNR CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2520	10	98	DISS		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2523.8	3.8	98	DISS		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2525.6	1.8	98	TR	EPID	MFNR	CONTINUATION OF DARK GREY, MAGNETIC, FG-MG MFNR W TR DISS PO IN MTX. UNIT CROSS CUT BY NUMEROUS SPLAYED GREEN, <CM, EPID VNLTS AT 50-70 DEG TCA. REL LIMITED ALT IN MFNR, NO ASSOC SULPHS.
2530	4.4	90	TR		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45-70 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2540	10	90	TR		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 30-45 DEG TCA. RARE, DARK GREY-BLACK CHL VNLTS <MM AT 40-50 DEG TCA. NO ASSO SULPHS.
2550	10	95	TR	EPID	MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. FRACTS AT 45 DEG TCA. RARE, LIGHT GREEN, SPLAYED EPID-QV VNLTS
2557.6	7.6	98	DISS		MFNR	CONTINUATION OF DARK GREY, MG-FG, MAGNETIC MFNR W TR DISS PO IN MTX. RARE FRACTS AT 60 DEG TCA. RARE, LIGHT GREY GREEN EPID VNLTS <MM AT 60 DEG TCA AND GREY, TRANSLUCENT QV AT 30 EG TCA. NO ASSO SULPHS.
2561.2	3.6	80	TR		MFNR	FG, MAGNETIC, DARK GREY MFNR. FINING TOWARDS UNDELYING INCLU. UNIT CROSS CUT BY CHL CLAY FRACTS AT 30 AND 70 DEG TCA. TR DISS PO IN MFNR MTX. OCCASIONAL GREEN EPID VNLTS AT 50 DEG TCA. MORE COMMON TOWARDS BASE OF INTERVAL.
2564.5	3.3	60	BLBS		MPEG	LIGHT PINK-GREY, CG, EUHEDRAL, EQUIGRANULAR PEGMATITIC INCLU IN MFNR. CRYSTALS UP TO 5MM LONG. PLAG, AMPH, QTZ W FAINT PINK POTASIC ALT. MARGINS SHARP BUT UNDULOSE AT APPROX 40-50 EG TCA. RARE, EU-SUBHEDRAL BLBS OF PO NEAR CONTACTS W MFNR. GREEN CHL FILLED FRACTS BREAK CORE AT 30 DEG TCA.
2567.3	2.8	80	TR		MFNR	DARK GREY, MAGNETIC, MG-FG MFNR W TR DISS PO IN THE MTX. UNIT BECOMES FINER GRAINED AND GREEN IN COLOUR TOWARDS BASE OF INTERVAL, ASSOC W ALT IN UNDERLYING UNIT. UNIT CROSS CUT BY FRACTS AT 50 EG TCA.

2570.5	3.2	25	TR	ALTN	FSGN	ALTD, LIGHT GREY/BIEGE TO GREEN INCLU OF POS MG FSGN IN MFNR. UNIT HAS NUMEROUS FRACTS AT 60-70 DEG AND IS CROSS CUT BY 15MM QV AT 90 DEG TCA. BRIGHT GREEN, FUCHSITE ALT AND LIGHTER GREEN EPID ALT THROUGHOUT UNIT W TR DISS PY. CONTACTS W MFNR AT 80 DEG TCA.
2574.7	4.2	95	TR		MFNR	MG, DARK GREY-BROWN, MAGNETIC MFNR W TR DISS PO IN MTX. UNIT CROSS CUT BY FRACTS AT 40 DEG TCA.
2578.4	3.7	98	TR		MPEG	LIGHT GREY GREEN, EQUIGRANULAR, SUBOEUHEDRAL PEGMATITIC INCLU IN MFNR, POS ALTD FSGN? FINER GRAINED AND GREATER MAFIC CONTENT THAN OVERLYING MPEG, CRYSTS UP TO 3MM LONG. PLAG, AMPH. QTZ. GREEN EPID ALT AT BASE OF INTERVAL ASSOC W CROSS CUTTING <CM QV AT 60 DEG TCA. CONTACTS W MFNR AT 70 DEG TCA. RARE DISS PY IN MTX.
2587.2	8.8	90	DISS	EPID	MFNR	MG, DARK GREY-BROWN, MAGNETIC MFNR W TR DISS PO (95%) AND CP (5%) IN MTX, INCR TOWAERDS BASE OF UNIT. UNIT CROSS CUT BY FRACTS AT 35 DEG TCA. NUMEROUS, GREEN EPID ALT ASSOC W NUMEROUS <CM GREY QTZ VNLT AT 20-60 DEG TCA. NO ASSOC SULPHS. RARE INCLU OF MPEG MTRL SIMILAR TO ABOVE INTERVAL. INCLU UP TO 2X2 INCHS.
2592	4.8	98	RGDI		SLNR	DARK GREY-BROWN, MG-FG, WKLY-MOD MAGNETIC SLNR DIFFUSE, LIGHT GREY QTZ W PARTIAL MELT INCLUS. REL SMALL SLNR HORIZ. TR DISS PO (95%) AND CP (5%). SHARP CONTACT W FOOTWALL AT APPROX 30 DEG TCA.
2595	3	98	RGDI		GRBX	VERY POORLY DEFINED ZONE OF GRBX W INDISTINCT, PARTIALLY MELTED, ROUNDED FRAFMENTS OF LIGHT GREY-PINK ALTD FOOTWALL MTRL (FSGN?) IN THIN ZONES OF MG, MED GREY-GREEN MTX. THIN GREY-PINK QV CUT UNIT AT 30-80 DEG TCA, W SOME ASSOC GREEN FUCHSITE. CLUSTERS OF DISS, EUHEDRAL PY UP TO 2X2 INCHES ASSOC W MTX AND ALONG MARGINS OF INCLUS IN GRBX. SMALL GRBX ZONE REFLECTS EQUALLY SMALL SLNR ZONE.
2597.8	2.8	100	DISS	FSGN	ALTN	HEAVILY ALTD, PINK GREY FSGN INCLU IN GRBX ZONE. RECRYSTALLISED AND COMPOSED MOSTLY OF FLDSR AND QTZ, NO MAFICS. UNIT CROSS CUT BY THIN, SPLAYED BLACK VNLTs OF GRBX MTX MTRL. CLUSTERED AND DISS, EU-SUBHEDRAL PY THROUGHOUT UNIT.
2600.4	2.6	90	TR		GRBX	CONTINUATION OF LIGHT GREY - GREEN GRBX ZONE. UNIT PARTIALLY MELTED AND ALTD W INDISTINCT FRAGS OF ROUNDED FOOTWALL MTRL IN LIGHT GREEN-GREY GRANITIC MTX. TR DISS PO/PY. RARE, SMALL PATCHES OF GREEN EPID ALT. CONTACT W FOOTWALL AT 35 DEG TCA.
2600.9	0.5	0			WDG	GRAPHITE PLUG
2607	6.1	98	TR	ALTN	IGN	START OF FOOTWALL MTRL. LIGHT GREY-GREEN, CHL ALTD, UNFOLIATED IGN W PARTIAL MELT TEXTURES AND EVIDENCE OF FLUIDS OR RESCRYSTALLISATION (TWO PHASES OF QTZ). TR DISS CP AND PY ASSOC W GREEN GREY EPID/CHL PATCHES.
2615.6	8.6	100	TR	ALTN	FSGN	LIGHT GREY-WHITE, UNFOLIATED, PARTIALLY MELTD AND RECRYSTALLISED FSGN. MAFICS (WITH EXCEPTION OF 6 INCH WIDE MFGN PATCH AT 2610.5') HAVE MOSTLY BEEN REMOVED FROM UNIT. V QTZ RICH W SECOND, WHITE QTZ INFILLING OR ASSOC W REMAINING MAFIC PATCHES. RARE DISS CP ASSOC W GREY CHL PATCHES. ALTD, PARTIALLY MELTED FOOTWALL MTRL.
2619.6	4	100	TR	FSGN	IGN	WKLY-UNFOLIATED, ALTD IGN W BNDS OF FLSC MTRL AND CHL ALTD MFGN MTRL. HAS PARTIAL MELT TEXTURES W SECONDARY WHITE QTZ INFILL. RARE DISS PO (90%) AND MLRT (APPROX 20%)ASSOC W PATCHES OF GREY CHL. 0.01%NI. 0.01%CU.
2625.3	5.7	95	DISS		IGN	ALTD IGN W BNDS OF FLSC MTRL AND CHL ALTD MFGN MTRL. MORE MAFIC AND BANDED TOWARDS BASE OF INTERVAL. UNIT HAS PARTIAL MELT TEXTURES W SECONDARY WHITE QTZ INFILL. RARE DISS PO (80%) AND MLRT (17%) AND CP (>3%) ASSOC W PATCHES OF GREY CHL. UNIT CROSS CUT BY DARK GREY GREEN CHL PATCHES AT 20 DEG TCA. RARE FRACTS AT 65 DEG TCA. 0.08%NI 0.23%CU.
2630.5	5.2	90	BLBS		MFGN	BNDED MFGN W LENSES OF FINE GRAINED, SPECKLED (GRANOPHYRIC?) FLSC MTRL, POS PARTIAL TEXTURES. BNDS AT APPROX 70 DEG TCA. DISS AND CLUSTERS OF SUB-EUHEDRAL PY AND PO. UP TO 2X1CM. ASSOC W GREY-BROWN ALT HALOES.
2637.6	7.1	95	TR		FSGN	LIGHT GREY-WHITE, UNBNDED ALTD FSGN W GREEN CHL ALTD MFIC PATCHES. CLUSTERS AND DISS PO (95%) AND PY(>5%) ASSOC WITH GREY-BROWN ALT HALOES AND MAFIC PATCHES. RARE, GREEN, <MM CHL VNLTs AT 20 DEG TCA.
2644.6	7	98	DISS		IGN	MOD BNDED IGN W LIGHT GREY FLSC BNDS AND CHL ALD MFIC BNDS. SOME POS PARTIAL MELT TEXTURES (DISCONT. MFIC BNDS) AND RARE DISS BLBS OF PO W ASSOC GREE CHL ALT HALOES.
2650.8	6.2	98	TR		FSGN	LIGHT GREY-PINK, MG, UNFOLIATED FSGN W PARTIAL MELT TEXTURE, MFICS MOSTLY REMOVED FROM UNIT. TR DISS PO ASSOC W GREEN CHL PATCHES. POS RARE, ELONGATE MLRT? UNIT HAS A GRBX LIKE TEXTURE IN SOME PARTS.
2652.9	2.1	98	TR	IGN	MFGN	DARK GREEN GREY MFGN W ZONES OF LIGHT GREY BNDED, MORE FLSC IGN. TR DISS CP(60%) AND PO(40%) IN IGN UNITS W ASSO CHL ALT HALOES.

2658	5.1	98	RGDI	EPID	FSGN	LIGHT GREY-PINK, UNFOLIATED, FSGN W PATCHES OF GREEN EPID ALT AND VNS UP TO <1INCH AT 70 DEG TCA. CLUSTERS OF RGDI PO. GREEN CHL ALT.
2667.5	9.5	98	TR	EPID	FSGN	LIGHT GREY-PINK, UNFOLIATED, MG FSGN. GREEN, <MM EPID VNLTs AT 55 DEG TCA W SOME PINK POTASSIC ALT. TR DISS PO.
2675.5	8	95	TR	MFGN	FSGN	LIGHT GREY-PINK, MG, POTASSIC ALTD FSGN. ALT ASSOC W GREEN EPID
2676.2	0.7	100	NVS	FSGN	SUBX	1D4/3 SUBX VN W LIGHT GREEN-GREY MTX AND FSGN LITHIC FRAGS. NO ASSOC SULPHS. CONTACTS AT 20 DEG TCA.
2677.1	0.9	100	NVS		IGN	MG-CG, UNFOLIATED, LIGHT GREY W DARK GREY GREEN CHL ALTD PATCHES. SOME POS DIFFUSE PATCHS OF POTASSIC ALT.
2679.5	2.4	100	NVS		MTDB	LIGHT GREY-GREEN, MG, HOMOGENOUS MTDB INTRU W CONTACTS AT 30 DEG TCA.
2692.4	12.9	100	TR		FSGN	LIGHT GRE-WHITE FSGN W DIFFUSE PACTHES OF PINK POTASSIC ALT. PATCHES AND BNDS OF DARK GREY GREEN CHL ALTD. RARE, BLBS OF PO W GREY CHL ALT PATCHES. RARE <MM GREY CHL VNLTs AT 40 DEG TCA.
2701.4	9	100	NVS	IGN	MFGN	DARK GREY, UNFOLIATED MFGN W SOME PATCHES OF MORE FLSC IGN. NO VIS SULPHS OR VNLTs.
2702.4	1	98	BLBS		FSGN	CONTINUATION OF UNFOLIATED LIGHT GREY AND DARK GREY IGN W CLUSTERS OF CG BLBS FORMING A LENSE OF METALLIC GREY MAGNETIC WITHIN THE MTX.
2708.5	6.1	95	TR	IGN	MFGN	CONTINUATION OF UNFOLIATED-WKLY FOLIATED DARK GREY MFGN W PATCHS OF MORE FLSC IGN MTRL. RARE FG, DISS PO.
2724.9	16.4	98	TR	IGN	MFGN	CONTINUATION OF ABOVE WKLY FOLIATED MFGN/IGN UNIT W RARE DISS PO AND A SINGLE <MM STRS OF PO. RARE FRACTS AT 70 DEG TCA W BLACK CHL INFILL.
2734.2	9.3	98	TR	IGN	MFGN	CONTINUATION UNFOLIATED-WKLY FOLIATED DARK GREY MFGN W ZONES OF MORE FLSC IGN MTRL. RARE FG, DISS PO. RARE FRACTS AT 60-70 DEG TCA.
2738.8	4.6	95	DISS	IGN	MFGN	DARK GREY, FG MFGN W DISCONTINUOUS BNDS OF CG, WHITE, FLSC MTRL. CHL FILLED FRACTS AT 60 DEG TCA. UNIT CONTAINS TR DISS AND RGDI OF PO (60%) W CP MORE COMMON TOWARDS BASE OF UNIT (40%). ASSOC W FLSC BNDS.
2750.2	11.4	98	TR	MFGN	IGN	LIGHT GREY GREEN IGN W PATCHS AND ZONES OF DARK GREY GREEN MFGN. INTERVAL IS WKLY-UNFOLIATED W TR, FG TO VFG DISS OF PO(80%) AND CP (20%). RARE FRACTS AT 65 DEG TCA.
2758.1	7.9	90	TR	MFGN	IGN	CONTINUATION OF ABOVE UNIT. LIGHT GREY GREEN IGN W PATCHS AND ZONES OF DARK GREY GREEN MFGN. INTERVAL IS WKLY-UNFOLIATED W TR, FG TO VFG DISS OF PO(90%) AND CP (10%). RARE FRACTS AT 65 DEG TCA. SLIGHTLY MORE FLSC MTRL TOWARDS BASE OF INTERVAL.
2760.4	2.3	60	TR		IGN	CONTINUATION OF ABOVE UNIT. LIGHT GREY GREEN IGN W PATCHS AND ZONES OF DARK GREY GREEN MFGN. INTERVAL IS WKLY-UNFOLIATED W TR, FG TO VFG DISS OF PO. CHL FILLED FRACTS AT 60 DEG TCA W POS SLICKENLINES.
2762.7	2.3	98	BLBS		IGN	LIGHT GREY-GREEN, UNFOLIATED IGN W 1 INCH BND OF MFGN. UNIT MORE FLSC TOWARDS BASE. BLBS AND VFG DISS FORMING A RAGGED LENSES OF 80% PO, 20% CP. 0.7%NI, 1.2%CU. LENSE ROUGHLY AT 40 DEG TCA. ASSOC W FLSC MTRL.
2764.7	2	98	TR		IGN	MG, UNFOLIATED, LIGHT GREY GREEN IGN W INCR FLSC MTRL TOWARDS BASE OF UNIT. RARE, FG DISS PO IN LENSES AT 90 EG TCA.
2770.4	5.7	90	BLBS		DIA	DARK GREY, MAGNETIC, MG-FG, REL HOMOGENOUS DIA INTRU W UPPER CONTACTS 60 DEG TCA. RARE DARK GREY, TRANSLUCENT, <CM QV AT 15 DEG TCA. NO ASSOC SULPHS. PARTIALLY MELTED IGN INCLU 2 INCH WIDE AT 2768.2' HOSTS DISS BLBS OF CP (60%) AND PO (40%).
2774.5	4.1	100	TR	IGN	DIA	CONTINUATION OF DARK GREY, FG, MAGNETIC DIA W PARTIALLY MELTED INCLU OF IGN MTRL, GREY QTZ MINERAL FRAG INCLU AND V RARE, FG DISS PO.
2777.5	3	100	SPKS	IGN	DIA	CONTINUATION OF MG-FG, DARK GREY, MAGNETIC DIA W LIGHT GREY, PARTIALLY MELTED IGN INCLU 6 INCHES WIDE. DIA CONTAINS DISS SPKS OF PO AND CP THROUGHOUT AND IS SLIGHTLY COARSER THAN UNMIN DIA. POS HYDROTHERMAL ALT W ASSOC SULPHS?
2779.3	1.8	90	SPKS	IGN	SUBX	1C5 SUBX VN W DARK GREY MTX HOSTING IGN LITHIC FRAGS AND RARE DISS SPKS OF CP AND PO ASSOC W FRAGS. CONTACTS SUBTLE, ROUGHLY AT 35 DEG TCA.
2781.6	2.3	95	NVS		DIA	FG, HOMOGENOUS, MAGNETIC DIA W/O INCLU OR SULPHS. SINGLE FRACT AT 15 DEG TCA W CHL INFILL.
2785.9	4.3	90	TR		SUBX	1C5 SUBX VN W DARK GREY, INCLU POOR, MAGNETIC MTX. GREY QTZ MIN FRAGS ARE RARE IGN LITHIC FRAGS. SOME RARE DISS PO ASSOC W IGN INCLU. CONTACT AT APPROX 50 DEG TCA.
2796.6	10.7	98	TR	SUBX	IGN	WKLY BNDED LIGHT GREY GREEN IGN W RARE DISS PO. UNIT CROSS CUT BY 1INCH WIDE 1C5 SUBX VN AT 70 DEG TCA. CHL FILLED FRACTS AT 20 DEG TCA AND 80 EG TCA.
2798.6	2	60	STRS		IGN	CONTINUATION OF ABOVE IGN UNIT W NUMEROUS FRACTS AT 50-70 DEG TCA. UNIT CROSS CUT BY 10MM WIDE STRS OF PO(50%) AND PN(50%) AT 50 DEG TCA. 2%NI 0%CU.

2803.4	4.8	85	DISS		IGN	CONTINUATION OF LIGHT GREY GREEN, UNFOLIATED IGN W RARE <INCH BNDS OF DARK GREY GREEN MFGN. UPPER PART OF INTERVAL BROKEN BY FRACTS AT 30 AND 60 DEG TCA. TR DISS AND STKS OF PO AND CP IN IGN MTX.
2813.2	9.8	98	TR	MFGN	IGN	DARK GREY GREEN, UNFOLIATED IGN W RARE
2832.1	18.9	90	TR	SUBX	IGN	UNFOLIATED DARK-MED GREY, MG IGN W SOME BNDS OF MFGN. POS DARK GREY, MTX RICH 2C5 SUBX VN AT 2819.0'. PARTIAL MWELT TEXTURES IN ADJ IGN. CONTACTS AT 60 DEG TCA. RARE, VFG DISS PO IN IGN MTX.
2834.3	2.2	30	NVS	STRT	IGN	CONTINUATION OF DARK GREY-GREEN IGN W <INCH MFGN BNDS AT 65 DEG TCA. CORE FRAGMENTED AND BROKEN BY STRT, POS FLT, SOME TALC MTRL ALONG FRACTS.
2841.2	6.9	98	TR		IGN	EQUIGRANULAR, UNBANDED, DARK GREY GREEN MG IGN W TR DISS PO IN MTX. NO FRACTS OR VNLTS.
2841.7	0.5	10	NVS	STRT	IGN	CONTINUATION OF IGN, CORE BROKEN BY CHL CLAY FILLED FRACT AT 25 DEG TCA. NO ASSOC SULPHS.
2842.9	1.2	80	TR	MFGN	IGN	CINTINUATION OF MG, DARK GREY GREEN IGN W DARK GREY MFGN BND 4 INCH WIDE AT 90 DEG TCA. V RARE, VFG DISS PO IN IGN MTX. FRACTS AT 70 DEG TCA.
2845.8	2.9	98	BLBS	IGN	MFGN	DARK GREY MFGN W DISCONTINUOUS <INCH BNDS OF MORE FLSC IGN MTRL. RARE DISS BLBS UPTO 1X1CM W PO (40%) AND CP (60%) ASSOC W IGN BNDS.
2849.7	3.9	100	NVS	MFGN	IGN	CONTINUATION OF DARK GREY, MG, EQUIGRANULAR IGN W DISCONTINUOUS, ROUNDED <2INCH LENSES OF MFGN. PARTIAL MELT TEXTURE? NO VIS SULPHS.
2860.2	10.5	98	TR		IGN	DARK GREY, MG-CG IGN W <INCH BNS OF WHITE-PINK, POTASSIC ALTD FLSC MTRL. RARE, VFG DISS PO IN IGN MTX.
2865	4.8	40	NVS	IGN	STRT	CONTINUATION OF ABOVE DARK GREY IGN UNIT. CORE BROKEN BY DARK GREEN CHL FILLED FRACTS AT <10 DEG TCA AND 70 DEG TCA. FAINT PINK POTASSIC ALT IN ADJ IGN.
2869.4	4.4	98	TR	MFGN	FSGN	LIGHT-MED GREY GREEN, MG-CG FSGN W DISCONTINUOUS BNDS OF DARK GREEN MFGN MTRL, PARTIAL MELT FABRIC? DARK GREEN <MM CHL VNLTS CUT CORE AT 35 DEG TCA. RARE FRACTS AT 45 DEG TCA. RARE, VFG DISS PO IN MTX.
2871.3	1.9	60	NVS	STRT	MFGN	DARK GREY, FG, MFGN W <INCH PINK GREY FLSC BNDS. CORE BROKEN BY FRACTS AT 40 DEG TCA, POS STRT OR DRILL DAMAGE? NO VIS SULPHS.
2878.3	7	80	TR	MFGN	IGN	UNFOLIATED, MG, EQUIGRANULAR DARK GREY IGN W <FT BNDS OF DARK GREY FG MFGN. PARTIAL MELT TEXTURES THROUGHOUT ARE RARE, VFG DISS PO.
2880.7	2.4	100	DISS	SUBX	IGN	CONTINUATION OF ABOVE IGN UNIT W PARTIAL MELT FABRIC ASOC W POS 2INCH 2C5 SUBX VN AT APPROX 30 DEG TCA, VERY DIFFUSE MARGINS. DISS AND STREAKS OF PO (40%) AND CP (60%).
2884.2	3.5	95	TR		IGN	CONTINUATION OF DARK GREY, MG, EQUIGRANULAR IGN W RARE, VFG DISS PO INMTX. UNIT CUT BY CHL BEARING FRACT AT 30 DEG TCA.
2888.3	4.1	98	DISS	SUBX	IGN	DARK GREY, MG, UNFOLIATED IGN, SLIGHTLY MORE FLSC TOWARDS BASE OF INTERVAL. UNIT CROSS CUT BY 6 INCH WIDE, MTX RICH 2C5 SUBX VN AT 50 DEG TCA. NO ASSOC SULPHS. DARK GREEN <CM CHL VNLT AT 2886' AT 30 DEG TCA HAS GREEN EPID ALT IN ADJ IGN W DISS PO AND CP IN ALT ZONE. SOME DISS PO ASSOC W MORE MFIC ZONES OF IGN.
2889.2	0.9	100	TR		IGN	CONTINUATION OF HOMOGENOUS, MG, DARK GREY GREE IGN W OCCASIONAL <MM, DARK GREEN CHL VLTS AT 20 DEG TCA. RARE, VFG DISS PO IN MTX.
2890.6	1.4	90	STRS		FSGN	LIGHTER GREY GREEN, CG, FSGN W PARTIAL MELT FABRIC/POS RECRYST. UNIT CROSS CUT BY 1CM WIDE SULPH VN OF PO AND POS CP? W DARK GREEN, CHL AND EPID ALT HALO IN ADJ FSGN MTRL. VNLT AT 30 DEG TCA. CORE SLIGHTLY BROKEN BY DRILLING. NO STRTS.
2897.4	6.8	95	TR	EPID	GRBX	SHARP CONTACT AT 50 DEG TCA INTO LIGHT-MED GREY GRBX. DARK GREY,
2898.2	0.8	100	STRS	MFGN	GRBX	CONTINUATION OF GRBX ZONE W UPTO 3 INCH WIDE, ROUNDED INCLU OF DARK GREY, FG, MFGN MTRL AND GRBX MTX INBETWEEN. UNIT HAS FAINT GREEN EPID ALT THROUGHOUT, POS ASSOC W 1CM WIDE SRTS OF PO WITHIN GREY GREEN CHL QTZ VN AT 30 DEG TCA. 0.5%NI, 0%CU. DRILL HAS SLIGHTLY POLISHED SULPHS BUT NO MLRT PRESENT.
2900.7	2.5	98	NVS	GRBX	MFGN	DARK GREY, FG, HOMONGENOUS MFGN CLAST IN LIGHTER GREY, HETEROGENOUS GRBX W CONTACTS AT 45 DEG TCA. BASE OF INTERVAL MARKED BY LIGHT GREY FSGN CLASTS W CONTACT AT 90 DEG TCA. NO SULPHS OBSERVED.
2906	5.3	95	TR		GRBX	CONTINUATION OF GRBX ZONE W DARK GREY GREEN MFGN AND LIGHT GREY TO PINK FLGN CLASTS, W SOME PARTIAL MELT FABRICS IN A LIGHT GREY, SILICEOUS MTX W RARE, VFG, DISS PO.
2917.9	11.9	98	TR		GRBX	CONTINUATION OF GRBX ZONE W DARK GREY GREEN MFGN CLASTS UP TO 4 INCHES AND SMALLER LIGHT GREY TO PINK FSGN CLASTS, W SOME PARTIAL MELT FABRICS IN A LIGHT GREY, SILICEOUS MTX W RARE, VFG, DISS PO. OCCASIONAL CHL FILLED FRACTS AT 60 DEG TCA.

2920.4	2.5	60	NVS		MFGN	DARK GREY, FG, MAGNETIC MFGN W NO VIS SULPHS AND REGULAR FRACTS AT 65 DEG TCA. LOWER SEGMENT OF INTERVAL BROKEN BY DRILLING.
2951.2	30.8	98	NVS	MFGN	IGN	UNFOLIATED IGN W DARK GREEN MFGN PATCHES AND BNDS UP TO 1FT WIDE. SOME PARTIAL MELT TEXTURES, ESPECIALLY IN UPPER SECTION OF INTERVAL. RARE, VFG DISS PO IN MTX AND ASSOC W MFGN PATCHES.
2957.3	6.1	98	TR		IGN	CONTINUATION OF UNFOLIATED, MG-CG IGN UNIT, MFGN PATCHES ARE DARK GREEN PERVASIVE CHL ALTD ASSOC W <MM GREEN EPID VNLTs W PINK POTASSIC ALT ADJ TO VNLTs, WHICH ARE AT 65 DEG TCA. FRACTS AT 40-65 DEG TCA. NO VIS SULPHS.
2958.3	1	70	STRS	QECV	IGN	CONTINUATION OF CHL ALTD, MG-CG IGN UNIT, CROSS CUT BY 5MM WIDE QECV W GREEN EPID AND PINK-LIGHT GREY POTASSIC ALT IN ADJ IGN. VNLT AT 25 DEG TCA. VNLT HOSTS 100% PO. UNIT CUT BY FRACTS AT 50 DEG TCA. 0.15%NI AND 0%CU.
2962	3.7	75	NVS	SUBX	IGN	CONTINUATION OF UNFOLIATED, MG-CG IGN UNIT, MFGN PATCHES ARE DARK GREEN PERVASIVE CHL ALTD ASSOC W <MM GREEN EPID VNLTs W PINK POTASSIC ALT ADJ TO VNLTs, WHICH ARE AT 40-65 DEG TCA. FRACTS AT 65 DEG TCA. POS PARTIALLY MELTED 2C4 SUBX VN 2INCHES WIDE AT 2960.5'. NO VIS SULPHS.
2966	4	80	NVS	IGN	GRBX	POS SPLAY OR INJECTION OF MED GREY-GREEN GRBX, OR PARTIALLY MELTED IGN MTRL W PATCHES OR INCLU OF DARK GREY GREEN MFGN MTRL. NO VIS SULPHS. RARE <MM DARK GREEN CHL VNLTs AT 20 DEG TCA. CHL FILLED FRACTS AT 65 DEG TCA.
2976.9	10.9	98	NVS		IGN	CONTINUATION OF ALTD/PARTIALLY MELTED CG, DARK GREY GREEN IGN W/O FOLIATION OR BNDS. NO VIS SULPHS. CHL FILLED FRACTS AT 10 DEG TCA. PATCHES OF PINK POTASSIC ALT ADJ TO <MM GREEN EPID VNLTs AT 20 DEG TCA.
2980.5	3.6	30	NVS	IGN	EPID	IGN CROSS CUT BY GREEN EPID VN W QTZ FRAGS/INCLU. VN 5INCHES WIDE AT APPROX 60 DEG TCA. ADJ IGN MTRL IS POTASSIC, EPID, CHL ALTD AND BROKEN BY FRACTURES AT 50 DEG TCA.
2985.4	4.9	95	TR	MFGN	IGN	CG, UNFOLIATED IGN W POS PARTIAL MELT FABRIC CONTINUES W/O THE PERVASIVE ALT PRESENT IN OVERLYING INTERVAL. FG, DARK GREY GREEN MFGN BND 1.5FT WIDE AT 2984.0'. MFGN HOSTS VFG DISS PO. CORE CUT BY FRACTS AT 65 DEG TCA.
2990.8	5.4	40	NVS	FLT	IGN	ALTD IGN W PINK POTASSIC ALT THROUGHOUT AND PATCHES OF GREEN EPID, ASSOC W FLT IN NEXT INTERVAL. UNIT BROKEN BY NUMEROUS FRACTS AT 20-50 DEG TCA. NO VIS SULPHS. ALT INCREASES TOWARDS BASE OF INTERVAL.
2991.6	0.8	80	NVS		FLT	WELL CEMENTED FLT GOUGE W A QTZ/CLAY CEMENT AND FRAGMENTS OF QTZ, POTASSIC ALT FLSPR, EPID ALT MTRL AND DARK GREEN CHL INCLU. NO VIS SULPHS. FLT CONTACTS AT APPROX 50 DEG TCA. POS BRECCIAATION OF PRE-EXISTING QV?
2995.3	3.7	35	NVS	IGN	ALTN	PERVASIVELY ALTD IGN MTRL WITH DEEP PINK POTASSIC ALTD FLDSPR AND GREEN EPID AND CHL ALT. <MM GREEN EPID VNLTs CUT CORE AT 55 DEG TCA. ALT STRONGEST ADJ TO OVERLYING FLT. CORE BROKEN BY CHL/TALC FILLED FRACTS AT 50 DEG TCA.
3032.3	37	100	NVS	SUBX	IGN	WKLY BNDED, MED GREY, IGN, SLIGHTLY LESS PARTIAL MELTING COMPARED W OVERLYING UNIT (DUE TO FLT?) W SOME ZONES OF MORE FLSC MTRL AND MFIC MTRL. UNIT CROSS CUT BY RARE, 2C4/5 SUBX VNLTs UP TO 2 INCHES WIDE AT 45 DEG TCA. NO ASSOC SULPHS. RARE, DARK GREEN CHL VNLTs AT 20 DEG TCA.
3051	18.7	95	NVS		MFGN	DARK GREY GREEN, MOD-WKLY BNDED MFGN W OCCASIONAL WHITE FLSC BNDS <2INCHES WIDE AT 40 DEG TCA. BNDS LESS FREQUENT BUT STRONGER TOWARDS BASE OF INTERVAL. NO VIS SULPHS. OCCASIONAL FRACTS AT 50 DEG TCA.
3052	1	100	NVS	FSGN	QV	LIGHT GREY, TRANSLUCENT QV W WHITE-PINK POTASSIC ALTD FLSDPR PHENOCRYSTS. CONTACT AT 55 DEG TCA. UNDERLAIN BY THIN HORIZON OF MG, LIGHT GREY, FSGN MTRL. NO VIS SULPHS.
3059.1	7.1	100	NVS		MFGN	CONTINUATION OF MOD BNDED MFGN W OCCASIONAL <INCH LENSE OF WHITE FLSC MTRL AT >70 DEG TCA. RARE, DARK GREEN CHL VNLTs W WHITE ALT HALO IN ADJ MFGN, CUT CORE AT 30 DEG TCA. SOME GREEN ALT TOWARDS BASE OF INTERVAL ASSOC W EPID VNLT AT APPROX 30 DEG TCA, NO ASSOC SULPHS.
3064.2	5.1	98	STRS		MFGN	CONTINUATION OF DARK GREEN-GREY, MOD BANDED MFGN W <INCH FLSC BNDS AT 50-70 DEG TCA. UNIT CROSS CUT BY CHL AND PO STRS 3MM WIDE AT 30 DEG TCA. GN BECOMES INCR FLSC TOWARDS BASE OF UNIT, W DISS BLBS OF PO AND POS PY IN MFGN MTX. 0.025%NI 0%CU. RARE FRACTS AT 40 DEG TCA.
3073.5	9.3	100	NVS		IGN	MOD-WELL BANDED IGN W <INCH BNDS AT 60 DEG TCA. NO VIS SULPHS OR FRACTS. OCCASIONAL <MM CHL VNLTs AT 25 DEG TCA.
3094.8	21.3	100			IGN	CONTINUATION OF IGN, BUT BNDS LESS WELL DEFINED (MOD-WKLY BANDED) W WIDER ZONES OF FSGN AND MFGN UP TO 7INCHES WIDE. NO VIS SULPHS. RARE, <INCH DARK GREY 3C5/4 SUBX VNLTs. SOME POS PARTIAL MELT FABRIC, PART OF IGN ALMOST GRBX APPEARANCE. OCCASIONAL <MM DARK GREEN CHL VNLT AT 25-30 DEG TCA.

3098	3.2	100	NVS	EPID	MFGN	WELL FOLIATED, DARK GREY GREEN MFGN W <INCH, WHITE FLSXC BNDS AT 40 DEG TCA ASSOC W <CM CHL VNLTS. NO VIS SULPHS. DIFFUSE GREEN EPID ALT TOWARDS BASE OF INTERVAL ASSOC W CHL VNLTS.
3109.2	11.2	100	NVS	MFGN	FSGN	LIGHT GREY-WHITE, CG, UNFOLIATED FSGN W RARE <INCH UNDULOSE BNDS AND ZONES OF DARK GREEN-GREY MFGN MTRL AT 60-70 DEG TCA. NO VIS SULPHS. RARE <CM DARK GREEN, CHL VNLTS AT 30 DEG TCA AT TOP OF INTERVAL.
3116.6	7.4	100	TR		MFGN	MOD MAGNETIC, DARK GREY, FG, MOD FOLIATED MFGN W OCCASIONAL, LIGHT GREY, <INCH FLSC BNDS AT TOP OF INTERVAL AT 55 DEG TCA. BECOME LESS FREQUENT DOWNHOLE. RARE, VFG-FG, DISS PO ASSOC W FLSC BNDS.
3119.9	3.3	100	TR		MFGN	MOD MAGNETIC, DARK GREY, FG, MOD FOLIATED MFGN W OCCASIONAL, LIGHT GREY, <3INCH FLSC +/- CHL BNDS AT 40 DEG TCA. RARE, VFG-FG, DISS PO ASSOC W FLSC/CHL BNDS.
3124.8	4.9	100	TR		MFGN	MOD MAGNETIC, DARK GREY, FG, MOD FOLIATED MFGN W OCCASIONAL, LIGHT GREY, <3INCH FLSC +/- CHL BNDS AT 40 DEG TCA. RARE, VFG-FG, DISS PO ASSOC W FLSC/CHL BNDS.
3131.4	6.6	100	NVS		MFGN	MOD MAGNETIC, DARK GREY, FG, WELL FOLIATED MFGN W OCCASIONAL, LIGHT GREY, <1INCH FLSC +/- CHL BNDS AT 50 DEG TCA. SOME FLSC PATCHES SHOW RECRYSTALLISATION TEXTURES. AT 3130.5' CHL VNLTS CAUSE GREEN EPID ALT IN ADJ MFGN.
3154.5	23.1	100	NVS		MFGN	MOD MAGNETIC, DARK GREY, FG-MG, MOD-WELL FOLIATED MFGN W OCCASIONAL, LIGHT GREY, FLSC +/- CHL BNDS UP TO 6INCHES WIDE AT 40-60DEG TCA. SOME PARTIAL MELT AND POS BRECCIATION TEXTURES PRESENT IN THE MFGN. NO VIS SULPHS.
3162.7	8.2	100	NVS		MFGN	MOD MAGNETIC, DARK GREY, FG-MG, CHAOTICALLY/WKLY FOLIATED MFGN W OCCASIONAL, LIGHT GREY, CG, FLSC +/- CHL BNDS UP TO 6INCHES WIDE AT VARIOUS ORIENTATIONS TCA. SOME PARTIAL MELT. NO VIS SULPHS.
3169	6.3	100	TR		MFGN	MOD MAGNETIC, DARK GREY GREEN, FG, MOD FOLIATED MFGN W PARTIALLY MELTED ZONES OF LIGHT-MED GREY, FLSC +/- CHL MTRL. VFG, DISS PO ASSOC W FLSC ZONES. RARE FRACTS AT 40 DEG TCA.
3170.9	1.9	95	RGDI	FSGN	MFGN	MOD MAGNETIC, DARK GREY GREEN, FG, MOD FOLIATED MFGN W PARTIALLY MELTED ZONES OF LIGHT-MED GREY, FLSC +/- CHL MTRL. MG, RGDI AND DISS PN AND CP ASSOC W FLSC ZONES. 20% CP, 80%PO. RGDI AT 20 DEG TCA. 0.08%NI, 0.13%CU.
3173.2	2.3	100	NVS		MFGN	MOD MAGNETIC, DARK GREY, FG, UNFOLIATED MFGN W PARTIALLY MELTED BND OF LIGHT-MED GREY, FLSC +/- CHL MTRL AT <10 DEG TCA. NO VIS SULPHS.
3178	4.8	98	RGDI	MFGN	FSGN	UNFOLIATED, LIGHT GREY FSGN W PARTIAL MELTED MTRL AND UNDULATING BNDS OF DARKER GREY MFGN MTRL W PATCHES OF GREEN CHL ALT. BNDS MORE DISTINCT TOWARDS BASE OF UNIT AT APPROX 50 DEG TCA. VFG-FG DISS AND RGDI PO ASSOC W MFGN ZONES.
3180	2	100	NVS		FSGN	LIGHT GREY, MG-FG FSGN W <INCH BNS OF DARK GREY MFGN MTRL AT 60 DEG TCA. NO VIS SULPHS. POSS PART OF INCREASINGLY SILICEOUS ALT ZONE ADJ TO UNDERLYING DIA INTRUSION.
3186.7	6.7	100	NVS		FSGN	MOD BANDED, FG BECOMING COARSER DOWNHOLE, FSGN. POS ALTD BY UNDERLYING DIA INTRUSION. OCCASIONAL BNDS OF DARK GREY MFGN AT 70 DEG TCA UP TO 4 INCHES WIE. NO VIS SULPHS.
3190.8	4.1	95	TR	ALTN	MFGN	MED GREEN - DARK GREY, CHL ALTD CG-MG MFGN. ALT ASSOC W UNDERLYING DIA INTRUSION. SHARP UPPER CONTACT W FSGN AT 90 DEG TCA. RARE, FG, DISS PO ASSOC W FLSC /CHL BND <2 INCHES WIDE AT 3189.3' AND 3191.5'.
3213.9	23.1	95	NVS		OLDI	DARK GREY GREEN, FG, MAGNETIC, HOMOGENOUS OLDI INTRUSION, W GLASSY CHILLED MARGIN CONTACTS AT 45 DEG TCA. UNIT CROSS CUT BY FRACTS AT 30-40 DEG TCA. SPLAYED, <CM QTZ VNLTS CUT CORE AT 50 DEG TCA. MORE COMMON TOWARDS BASE OF UNIT AND ASSOC W GREEN DISCOLOURATION, NO ASSOC SULPHS.
3226.1	12.2	95	TR	EPID	MFGN	MOD-WKLY FOLIATED DARK GREY, MG-FG MFGN W PATCHES OF LIGHTER GREY, CG FSGN MTRL W PARTIAL MELT PATCHES AND ASSOC VFG DISS PO. PATCHES OF GREEN EPID ALT. FRACTS AT 35 DEG TCA. NO SULPHS ASSOC W EPID.
3240.5	14.4	95	TR	MFGN	FSGN	CG, LIGHT GREY FSGN W BNDS OF MFGN MTRL UP TO 1FT WIE AT 15 DEG TCA. UNIT CROSS CUT BY DARK GREY, <CM CHL VNLTS AT 25 DEG TCA. RARE, VFG, DISS PO IN CHL/MFIC PATCHES IN FSGN. FRACTS AT 45 DEG TCA.
3321	80.5	98	TR	EPID	MFGN	DARK GREY, FG, MOD-WKLY FOLIATED MFGN W OCCASIONAL BNDS OF UNDULATING, PARTIALLY MELTED, LIGHT GREY, CG-MG FLSC MTRL W ASSOC VFG, DISS PO. ZONES OF GREEN EPID ALT. OCCASIONAL FRACTS AT 60 DEG TCA.
3352.4	31.4	100	TR	MFGN	GRBX	CHAOTIC, BRECCIATED UNIT W PARTIAL MELT FABRICS AND INCLU OF DARK GREY MFIC MTRL UP TO 7 INCHES WIE IN A LIGHT GREY SILICEOUS MTX. POS GRBX? OVERLYING GN MTRL COULD BE LARGE BLOCK ENTRAINED IN SIC? SOME PATCHES OF DIFFUSE PINK POTASSIC ALT ASSOC W <MM GREEN CHL VNLTS AT 40 DEG TCA.

3369.2	16.8	100	TR		IGN	LIGHT GREY, FLSC MATRIX W DARK GREY GREEN MFGN PATCHES, PARTIAL MELT FABRIC THROUGHOUT, IMILAR TO GRBX BUT NO CLASTS OBSERVED. UNIT CROSS CUT BY GREEN <CM EPID VNLTs AT 50 DEG TCA W ASSOC PINK POTASSIC ALT IN ADJ IGN. DARK GREY GREEN CHL VNLTs AT 30 DEG TCA. RARE, VFG DISS PO IN MFIC PATCHES.
3381.9	12.7	100	NVS		FSGN	LIGHT GREY, MG-CG UNFOLIATED FSGN W RARE <MM GREEN EPID VNLTs AT 50 DEG TCA.
3403.2	21.3	98	NVS		GRBX	LIGHT GREY, SILICEOUS MTX W DARK GREY GREEN, SUB-ANGULAR OR SUB-ROUNDED MFGN CLASTS W PARTIAL MELT FABRICS. PINK POTASSIC ALT ASSOC W GREEN EPID VNS UP TO 2CM WIDE UP TO 65 DEG TCA. OCCASIONAL FRACTS AT 20-50 DEG TCA.
3411.1	7.9	90	NVS	IGN	QDIA	DARK GREY-MED GREEN, MAGNETIC, FG QDIA W IGN LITHIC FRAGS AND UNDULOSE DIFFUSE BNDS OF LIGHT GREY QTZ/CHL MTRL W BIO PORPHYROBLASTS. UNIT CROSS CUT BY FRACTS AT 10 AND 50 DEG TCA. CONTACTS AT 70-80 EG TCA.
3424.3	13.2	100	NVS	IGN	GRBX	CONTINUATION OF PARTIALLY MELTED IGN W GRBX LIKE APPEARANCE. SOME POS RELICT BNDS OF MFGN/FLSC MTRL REMAINING AT APPROX 40 DEG TCA. NO VIS SULPHS.
3431.7	7.4	85	NVS		QDIA	DARK GREY-MED GREEN FG-MG, MAGNETIC QDIA W BIO PORPHYROBLASTS AND UNDULOSE BNDS OF POTASSIC ALTD PINK FLSC MTRL AND IGN LITHIC FRAGS (W PARTIAL MELT FABRIC). UNIT CROSS CUT BY FRACTS AT 10-20 DEG TCA. CONTACTS AT 30 DEG TCA. NO VIS SULPHS.
3462.1	30.4	98	TR		IGN	MG, GREY-PINK, UNFOLIATED IGN W <INCH BNDS OF MFGN MTRL AT 55 DEG TCA. DIFFUSE PINK POTASSIC ALT INCREASES DOWNHOLE, POS ASSOC W OCCASIONAL <MM GREEN EPID VLS AT 60 DEG TCA. TR, VFG DISS PY AND CP ASSO W RARE <INCH GREEN EPID ALT PATCHES. RARE FRACTS AT 35 DEG TCA.
3470.6	8.5	98	TR		IGN	MG, GREEN-PINK, UNFOLIATED IGN W <INCH BNDS OF MFGN MTRL AT 80 DEG TCA. DIFFUSE PINK POTASSIC AND GREEN CHL ALT THROUGHOUT, STRONGEST ADJ TO <MM GREEN EPID VLS AT 50-70 DEG TCA. TR, FG DISS PY AND CP ASSOC W RARE <INCH GREEN EPID ALT PATCHES. RARE FRACTS AT 35 DEG TCA.
3471.6	1	95	STRS	EPID	IGN	CONTINUATION OF MG IGN W PERVASIVE GREEN EPID ALT THROUGHOUT AND PINK POTASSIC AND CHL ALT IN ADJ IGN. DISCONTINUOUS CM WIDE STR AND CLUSTERS OF MG DISS PO (70%) AND CP (30%). STR AT 35 DEG TCA. 0.18%NI 0.5%CU.
3474.7	3.1	90	TR		IGN	CONTINUATION OF CG, POTASSIC ALTD IGN W CROSS CUTTING DARK GREEN CHL VNLTs (25 DEG TCA) CROSS CUT BY LATER GREEN EPID VNLTs AT 50 DEG TCA. FRACTS CROSS CUT CORE AT 35 DEG TCA. VFG, RARE DISS PO.
3480.8	6.1	100	NVS		QDIA	DARK GREY, HOMOGENOUS, FG, MAGNETIC QDIA, WHICH COARSENS SLIGHTLY, AWAY FROM THE CONTACT AT 65 DEG TCA. ONE FRACT AT 50 DEG TCA.
3487.9	7.1	95	NVS		QDIA	CONTINUATION OF DARK GREY, HOMOGENOUS, FG-MG, MAGNETIC QDIA. FRACTS AT 20 AND 50 DEG TCA.
3488.7	0.8	80	STRS		QDIA	CONTINUATION OF QDIA INTRUSION, CROSS CUT BY 1CM WIDE MASU STR AT 50 DEG TCA W CP 10%, PO 90%. 0.23%NI 0.17%CU. UPPER CONTACT OF VN SHARP, W DARK-MED GREEN CHL ALT. LOWER CONACT ALSO FRACTS W MORE RAGGED CONTACT.
3492.2	3.5	95	NVS		QDIA	CONTINUATION OF DARK GREY, HOMOGENOUS FG, MAGNETIC QDIA INTRUSION W RARE FRACTS AT 60 DEG TCA. NO VIS SULPHS.
3509.6	17.4	80	TR	IGN	QDIA	CONTINUATION OF DARK GREY, HOMOGENOUS FG, MAGNETIC QDIA INTRUSION W FRACTS AT 50-60 DEG TCA. IGN LITHIC INCLU IN QDIA INCREASE TOWARDS BASE OF INTRUSION, UP TO 2FT WIDE, HOSTING RARE, MG-CG DISS CP W GREEN CHL ALT HALOES. LOWER CONTACT OF QDIA AT 55 DEG TCA.
3529	19.4	80	TR	MTGB	MFGN	DARK GREY GREEN, CHL ALTERED CG, UNFOLIATED MFGN W DISCONTINUOUS BNDS OF WHITE, CG FLSC MTRL UP TO 1FT WIDE. V COARSE AND GREEN, POS METAGAB? RARE, VFG DISS PO IN MFIC MTRL.
3566.6	37.6	98	TR	MFGN	IGN	MG-CG LIGHT GREY TO PINK, POTASSIC ALTD, UNFOLIATED IGN W OCCASIONAL BNDS OF DARK GREY GREEN MFIC MTRL UP TO 8 INCHES WIDE AT 45 DEG TCA. SOME PATCHES OF GREEN EPID ALT. RARE <CM, DARK GREY CHL VNLTs AT 50 DEG TCA. V RARE, VFG DISS PO ASSOC W MFIC BNDS. RARE FRACTS AT 30 DEG TCA.
3570.5	3.9	98	NVS	IGN	MTDB	DARK GREY GREEN, CG, UNFOLIATED, MAGNETIC, CHL ALTD MTDB OR MFGN? NO VIS SULPHS. CONTACTS AT 70 DEG TCA. UNIT CONTAINS INCLU OR LENSES OF POTASSIC ALTD, MG IGN MTRL W CONTACTS AT 70 DEG TCA.
3572.4	1.9	80	NVS		IGN	MG-CG LIGHT GREY TO PINK, POTASSIC ALTD, UNFOLIATED IGN. POTASSI ALT ASSOC W
3573.5	1.1	100	TR		SUBX	3C4 DARK GREY GREEN, MTX RICH SUBX VN W QTZ AND POTASSIC ALTD FLDSR MINERAL FRAGMENTS. CONTACTS AT 90 DEG TCA. UNIT HOSTS FG DISS PO AND >CP ASSOC W GREEN EPID ALT PATCHES.
3579.7	6.2	100	TR	MFGN	IGN	LIGHT GREY/PINK, UNFOLIATED, MG IGN W POTASSIC AND CHL ALT. BNDS OF DARK GREY GREEN FG-MG MFGN MTRL UP TO 8 INCHES WIDE W RARE, VFG, DISS PO. RARE PATCHES OF GREEN EPID ALT.

3586.2	6.5	100	NVS	EPID	IGN	LIGHT GREY-PINK, MG, UNFOLIATED, UNBNDDED, IGN W PINK POTASSIC AND CHL ALT. POTASSI ALT MOST INTENSE ADJ TO GREEN EPID ALT ZONE 5 INCHES WIDE ASSOC W <MM EPID VNLT <10 DEG TCA. NO VIS SULPHS.
3593.8	7.6	98	TR		MFGN	DARK GREY GREEN, MG, MAGNETIC, MOD FOLIATED, MFGN W BNDS OF LIGHT GREY, CG FLSC MTRL <2 INCHES WIDE AT 80 DEG TCA. RARE, VFG DISS PO. SOME PINK POTASSIC ALT AND EPID ALT.
3603	9.2	100	TR	FSGN	IGN	LIGHT GREY-PINK, MG, UNFOLIATED, IGN W PINK POTASSIC. SOME POTASSIC ALTD FSGN BNDS UPTO 3 INCHES WIDE W ASSOC EPID ALT. SOME DISS CP ASSOC W DIFFUSE, UNDULOSE CHL VNLT AT 3599' AT 10 DEG TCA.
3608.9	5.9	100	TR		IGN	LIGHT GREY-PINK, MG, UNFOLIATED, IGN W PINK POTASSIC, SIMILAR TO ABOVE UNIT. SOME POTASSIC ALTD FSGN BNDS UPTO 3 INCHES WIDE. DISS, MG CP ASSOC W CHL ALT IN MFGN BND AT 3603.1' RARE, FG DISS PO IN IGN MTX.
3611.9	3	100	BLBS		IGN	MG, UNFOLIATED, GREEN-GREY, CHL ALTD IGN HOSTING BLBS OF CP (80%) AND PO (20% W SOME DARK GREY MAGNETITE. BLBS UP TO 1X1CM. THIN GREEN CHL ALT PATCHES ADJ TO BLBS.
3618.7	6.8	100	NVS	SUBX	MFGN	DARK GREY GREEN, MOD FOLIATED, MG, MAGNETIC MFGN W LIGHT GREY, PINK POTASSIC ALTD FLSC BNDS UP TO 5 INCHES WIDE. SOME PATCHES OF GREEN CHL/EPID ALT. UNIT CROSS CUT BY 1CM WIDE GREY GREEN, 3C5/4 AT 70 DEG TCA SUBX VNLT. NO VIS SULPHS.
3619.8	1.1	98	TR		MFGN	DARK GREY GREEN, MFGN W POS PARTIAL MELT TEXTURE. UNIT HOSTS VFG DISS CP W ASSOC GREEN CHL ALT HALOES AND A BLUE, MICA LIKE MINERAL, POS EUHEDRAL CHL PHELOCRYSTS?
3620.5	0.7	100	STKS	MFGN	SUBX	2C4/5 SUBX VN W DARK GREY, FG, MTX RICH MTX AND RARE QTZ, FLDSR MINERAL FRAGMENTS. CONTACTS UNCLEAR, AT APPROX 80 DEG TCA. STKS AND DISS OF PO(80%) AND CP(20%) AT 60-70 DEG TCA. 0.2%NI, 0.33%CU.
3625.2	4.7	100	NVS		DIA	DARK GREY, FG, HOMOGENOUS DIA W ANHEDRAL CM SIZED FELDSPAR PHENOCRYSTS. NO VIS SULPHS OR FRACTS. SOME GREEN CHL ALT ASSOC W <MM VNLTS OF CHL AT 30 DEG TCA.
3631.5	6.3	95	NVS	IGN	DIA	CONTINUATION OF FELDSPAR PHENOCRYST BEARING DIA INTRUSION, W LITHIC INCLU OF PINK-GREY, POTASSIC ALTD W GREEN EPID PATCHES, PARTIALLY MELTED IGN/FSGN UP TO 1FT WIDE. NO VIS SULPHS. LOWER CONTACT OF DIA AT 35 EG TCA.
3660.5	29	90	TR	MFGN	IGN	MG, UNFOLIATED, LIGHT-GREY TO PINK POTASSIC ALTD IGN W BNDS OF DARK GREY MFGN UP TO 4 INCHES AT 30 DEG TCA. RARE PATCHS OF GREEN EPID ALT.FRACTS AT 30 DEG TCA. RARE, FG DISS CP IN IGN ADJ TO LOWER CONTACT OF OVERLYING DIA INTRUSION. LOWER SECTION OF INTERVAL MARKED BY ZONE OF GREEN EPID ALT AT 40 DEG TCA. NO VI SULPHS.
3679.8	19.3	95	NVS	MFGN	IGN	CONTINUATION OF OVERLYING CG IGN UNIT BUT W/O PERVASIVE PINK POTASSIC ALT, NO PRESENT AS RARE SPOTS AND PATCHES. BNDS OF DARK GREY MFGN UP TO 2INCHES WIDE AT 50 DEG TCA. NOTABLE DECR IN PARTIAL MELTING COMPARED W OVERLYING INTERVALS. MOVING AWAY FROM HEAT SOURCE. FRACTS AT 30 DEG TCA.
3709.7	29.9	100	TR	MFGN	GRGN	BNDS OF PINK GREY, POTASSIC ALTD GRGN AND DARK GREY GREEN MFGN BNDS UP TO 1FT WIDE AT VARIOUS DEG TCA. RARE EPID AND CHL ALT PATCHES, SOME ASSOC W RARE, <CM DISS CP. AT 3684' GREEN EPID ALT ASSOC W CM WIDE EPID VN AT 40-50 DEG TCA. INCREASED MFGN CONTENT TOWARDS BASE OF INTERVAL.
3714	4.3	95	NVS		MFGN	DARK GREY GREEN, MAGNETIC, WKLY FOLIATED MFGN W DIFFUSE, UNDULOSE BNDS OF LIGHT GREY-POTASSIC PINK FLSC MTRL AT >70 DEG TCA. CONTACT W UNDERLYING UNIT CUT BY CONCAVE FRACT AT >10 DEG TCA W DARK GREEN CHL INFILL.
3730	16	80	TR	MFGN	GRGN	BNDS OF PINK GREY, POTASSIC ALTD GRGN AND DARK GREY GREEN MFGN BNDS UP TO 3FT WIDE AT VARIOUS DEG TCA. RARE EPID AND CHL ALT PATCHES. RARE, VFG, DISS CP ASSOC W FLSC MTRL WITHIN MFGN BNDS. REGULAR FRACTS CUT CORE AT 40 DEG TCA. POS RARE, >CM 3C4/5 GREEN GREY SUBX VNLTS W DIFFUSE / RAGGED CONTACTS AT 30 DEG TCA.
3730.5	0.5	0	NVS	EPID	GRGN	CONTINUATION OF OVERLYING GRGN UNIT W PINK POTASSIC ALT. UNIT ALTD BY PERVASIVE GREEN EPID. CORE BROKEN AND GROUND, POS BY DRILL PUSHING TOO HARD, NO EVIDENCE OF FLT. NO VIS SULPHS.
3740.9	10.4	95	NVS		GRGN	BNDS OF PINK GREY, POTASSIC ALTD GRGN AND DARK GREY GREEN MFGN BNDS UP TO 3FT WIDE AT VARIOUS DEG TCA. RARE EPID AND CHL ALT PATCHES. NO VIS SULPHS. RARE FRACTS AT 40 DEG TCA. OCCASIONAL, <MM, SPLAYED GREEN EPID VNLTS AT 50 DEG TCA.
3742.9	2	70	TR	EPID	GRGN	CONTINUATION OF OVERLYING GRGN UNIT W PINK POTASSIC ALT. UNIT ALTD BY PERVASIVE GREEN EPID ASSOC W CM WIDE EPID VN AT 70 DEG TCA. RARE, VFG DISS PO IN BOTH EPID AND GRGN. FRACTS CUT CORE AT 25 DEG TCA.
3750	7.1	98	TR		IGN	CG-MG LIGHT GREY TO POTASSIC IGN W RARE <1INCH BNDS OF DARK GREY GREEN MFGN MTRL W ASSOC RARE FG, DISS PO W GREEN GREY CHL ALT HALOES. OCCASIONAL, <MM GREEN SPLAYED EPID VNLTS AT 60-70 DEG TCA. E.O.H.

BOREHOLE 1294190
PROPERTY NAME COLEMAN **PROPERTY TYPE** Mining & Surface Patent PIN's 73342-0033/73342-0030, lot's 3/4 con 3 Levack twp
DEPTH (ft) 3390
COORDS (UTM NAD27 ZN 17) **NORTHING** 5168241 **EASTING** 474288 **ELEV (ft)** 1389
CORE SIZE NQ **DRILL CONTRACTOR** Major Drilling
START DATE Monday June 15, 2015 **END DATE** Saturday July 18 2015
STATUS Complete **CORE STORAGE LOCATION** Copper Cliff Mine Core Farm

Logged by: Ryan Humphries

Collar: Picked up with Trimble R8 GPS. Casing pulled upon hole completion

COMMENTS/NOTES Target being drilled: The second 2015 drill hole at Levack (129419-0), targeting the Coleman Mine Upper East Ore body, drilled to 1033m (3390ft). No significant mineralization was observed

DIRECTIONAL INFORMATION

DEPTH (ft)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
AZIMUTH	251.45	251.45	251.36	251.41	251.58	251.69	251.94	252.09	252.41	252.72	253.05	253.22	253.36	253.38	253.38	253.43	253.44
DIP	-51.4	-51.4	-50.56	-49.62	-49.49	-49.41	-49.29	-49.1	-49.21	-48.92	-49.05	-48.87	-49.05	-48.98	-48.69	-49.03	-48.94
DEPTH (ft)	255	270	285	300	315	330	345	360	375	390	405	420	435	450	465	480	495
AZIMUTH	253.55	253.48	253.52	253.56	253.65	253.72	253.71	253.76	253.77	253.78	253.79	253.97	254.19	254.24	254.35	254.38	254.45
DIP	-48.91	-48.95	-48.95	-48.97	-48.9	-48.89	-48.9	-48.85	-48.88	-48.84	-48.88	-49.13	-49.06	-48.89	-48.89	-49.05	-48.92
DEPTH (ft)	510	525	540	555	570	585	600	615	630	645	660	675	690	705	720	735	750
AZIMUTH	254.44	254.47	254.48	254.39	254.46	254.44	254.43	254.46	254.56	254.01	253.33	253.63	253.9	253.97	253.87	254.11	254.07
DIP	-48.97	-48.83	-48.9	-48.81	-48.85	-48.86	-48.89	-48.99	-48.9	-50.09	-50.18	-49.97	-50.58	-51.02	-50.8	-50.87	-50.81
DEPTH (ft)	765	780	795	810	825	840	855	870	885	900	915	930	945	960	975	990	1005
AZIMUTH	254.1	254.07	254.1	254.1	254.1	254.16	254.17	254.25	254.24	254.19	254.18	254.23	254.19	254.19	254.14	254.17	254.18
DIP	-50.95	-50.86	-50.82	-50.88	-50.89	-50.99	-50.97	-50.97	-50.95	-50.86	-51	-50.96	-51.05	-50.92	-51.03	-50.96	-50.79
DEPTH (ft)	1020	1035	1050	1065	1080	1095	1110	1125	1140	1155	1170	1185	1200	1215	1230	1245	1260
AZIMUTH	254.22	254.22	254.21	254.24	254.19	254.21	254.22	254.21	254.3	254.21	254.24	254.23	254.24	254.24	254.23	254.28	254.25
DIP	-51	-50.96	-50.87	-50.77	-50.95	-50.78	-50.81	-50.59	-50.5	-50.62	-50.61	-50.58	-50.64	-50.42	-50.42	-50.59	-50.46
DEPTH (ft)	1275	1290	1305	1320	1335	1350	1365	1380	1395	1410	1425	1440	1455	1470	1485	1500	1515
AZIMUTH	254.37	254.36	254.4	254.4	254.42	254.44	254.39	254.37	254.43	254.5	254.52	254.56	254.48	254.52	254.51	254.57	254.54
DIP	-50.47	-50.49	-50.55	-50.5	-50.29	-50.43	-50.5	-50.27	-50.21	-50.35	-50.38	-50.37	-50.47	-50.58	-50.44	-50.42	-50.33
DEPTH (ft)	1530	1545	1560	1575	1590	1605	1620	1635	1650	1665	1680	1695	1710	1725	1740	1755	1770
AZIMUTH	254.55	254.55	254.56	254.57	254.55	254.57	254.53	254.55	254.54	254.52	254.57	254.58	254.58	254.56	254.58	254.49	254.52
DIP	-50.33	-50.3	-50.44	-50.26	-50.36	-50.29	-50.35	-50.4	-50.28	-50.43	-50.2	-50.2	-50.22	-50.22	-50.28	-50.09	-50.11
DEPTH (ft)	1785	1800	1815	1830	1845	1860	1875	1890	1905	1920	1935	1950	1965	1980	1995	2010	2025
AZIMUTH	254.59	254.61	254.61	254.68	254.7	254.74	254.75	254.79	254.89	254.87	254.91	254.85	254.94	254.86	254.93	254.97	255.05
DIP	-50.23	-50.07	-49.9	-49.86	-49.85	-49.78	-49.88	-49.8	-49.69	-49.79	-49.85	-49.8	-49.75	-49.74	-49.66	-49.59	-49.58
DEPTH (ft)	2040	2055	2070	2085	2100	2115	2130	2145	2160	2175	2190	2205	2220	2235	2250	2265	2280
AZIMUTH	254.98	255.15	255.09	255.16	255.18	255.21	255.22	255.28	255.26	255.27	255.33	255.3	255.39	255.37	255.41	255.41	255.5
DIP	-49.52	-49.67	-49.66	-49.43	-49.25	-49.37	-49.33	-49.25	-49.32	-49.3	-49.05	-49.09	-49.12	-49.17	-48.94	-49.11	-48.98
DEPTH (ft)	2295	2310	2325	2340	2355	2370	2385	2400	2415	2430	2445	2460	2475	2490	2505	2520	2535
AZIMUTH	255.51	255.47	255.57	255.63	255.62	255.69	255.73	255.85	255.87	255.92	255.95	255.99	256.07	256.13	256.27	256.39	256.41

LOG

DEPTH	LENGTH	RQD	ORE	MINOR ROCK	ROCK	DESCRIPTION
0	0					Collar
34.3	34.3	0			OB	Collar/ OB
270.2	235.9	95			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; fracture sets happen at 40 and 70TCA; some fractures contains chlorite; very weak chlorite alteration to rock; weak foliation at roughly 60TCA.
289.1	18.9	60		STRT	OLDI	fine-grained, plagioclase and black mineral (too fine to determine)-rich, dark grey, strongly magnetic, olivine diabase; RQD is low, lots of fractures; along fractures there are slickenlines sub-parallel TCA with minor gouge material of chlorite.
289.6	0.5	0		FSNR	FLT	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; 1-2cm wide, small vein of gouge material.
389.3	99.7	95			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; fracture sets happen at 40 and 70TCA; some fractures contains chlorite; very weak chlorite alteration to rock; weak foliation at roughly 60TCA; closer to bottom of interval, increased potassic alteration and epidote veining (-70TCA and 2mm-2cm).
407.9	18.6	90			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green/pink colour, felsic norite; fracture sets happen at 40 and 70TCA; some fractures contains chlorite; moderate potassic and epidote alteration to interval; weak foliation at roughly 60TCA; epidote veinlets 2mm-1cm in thickness roughly 70-80TCA.
417.9	10	30		STRT	FSNR	same as above; contains a gouge-like material of hematite staining along fractures with my brecciations features due to intense fluids. Hematite along fractures with epidote.
475.3	57.4	80			FSNR	same as above.
533.4	58.1	95			FSNR	medium-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; fracture sets happen at 60 and 70TCA; some fractures contains chlorite; patchy potassic and epidote alteration to interval; weak foliation at roughly 60TCA; epidote veinlets 2mm-1cm in thickness roughly 70-80TCA; higher RQD than previous interval.
626.6	93.2	95			FSNR	coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; fracture sets happen at 60 and 70TCA; some fractures contains chlorite; patchy potassic and epidote alteration to interval; weak foliation at roughly 60TCA; epidote veinlets 2mm-1cm in thickness roughly 70-80TCA.
631.9	5.3	0		LC	WDG	Lost Core due to WDG, not centred, no button, shaved rock.
663	31.1	98			FSNR	coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey pale-green colour, felsic norite; fracture sets happen at 60 and 70TCA; some fractures contains chlorite; patchy potassic and epidote alteration to interval; weak foliation at roughly 60TCA.
664.6	1.6	80		STRT	FSNR	FSNR same as above; increased potassic alteration, strong enough to make the rock more brittle; small veinlet that has small 1mm fragments in it, vein causing brecciation, or very small STRT??
685.7	21.1	98			FSNR	FSNR same as above.
693.3	7.6	0		LC	WDG	Lost Core due to WDG, button centred.
704	10.7	90			FSNR	FSNR same as above.
750.7	46.7	98			FSNR	coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light-grey to white-ish colour, felsic norite; fracture sets happen at 60 and 40TCA; some fractures contains chlorite; weak patches of potassic and epidote alteration to interval; weak foliation at roughly 60TCA; epidote veinlets 1cm in thickness roughly 70-80TCA.
802.6	51.9	98			FSNR	coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light to dark-grey colour, felsic norite; fracture sets happen at 80 and 50TCA; some fractures contains chlorite; weak to no patches of potassic and epidote alteration to interval; weak foliation at roughly 60TCA; QCCVeinlets 1mm in thickness roughly 50TCA.
833	30.4	98			FSNR	Medium-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, dark-grey colour, felsic norite; fracture sets happen at 80 and 50TCA; some fractures contains chlorite; no patches of potassic and epidote alteration to interval

998.2	165.2	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey/green colour, felsic norite; 2 fracture sets; some fractures contains chlorite; weak patches of potassic and epidote alteration to interval; minor epidote veins striking roughly 40TCA; weak foliation at roughly 60TCA;
1045.3	47.1	85			FSNR	FSNR same as above; lower RQD due to mechanical error.
1046.6	1.3	80		QCCV	FSNR	FSNR same as above; QCCV causes minor brecciation of wall rock, and clasts of the carbonate; potential STRT?? Stiking 25TCA, 2-3cm in thickness.
1109.6	63	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey colour, felsic norite; 2 fracture sets; some fractures contains chlorite; weak to no patches of potassic and epidote alteration to interval; weak foliation at roughly 60TCA; contains minor Po SU, not enough to sample.
1110.5	0.9	95		QCCV	FSNR	FSNR same as above; QCCV causes minor brecciation of wall rock, and clasts of the carbonate; potential STRT?? Vein is 1cm in thickness striking 25TCA.
1145.7	35.2	98			FSNR	FSNR same as above.
1148	2.3	50			FSNR	FSNR same as above; low RQD due to mechanical error.
1287.7	139.7	90			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; 2 fracture sets; some fractures contains chlorite; weak patches of potassic and epidote alteration to interval concentrated around veinlets. ; loss of foliation; contains minor Po SU, not enough to sample.
1295.1	7.4	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, pale green to pink colour, felsic norite; moderate to strong patches of potassic and epidote alteration to interval concentrated around veinlets (striking 60TCA) ; loss of foliation
1443	147.9	95			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite; minor veinlets of chlorite striking 30TCA, with bleaching around some of them.
1451.9	8.9	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite; minor veinlets of qtz-carbonate, qtz, and qtz with an oxide mineral in the vein of a brownish colour. These veinlets/veins strike in the same direction, roughly 50TCA, with minor intensity in the interval.
1491.3	39.4	95			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite
1491.8	0.5	98			OLDI	fine-grained, black, strongly magnetic, OLDI.
1596.3	104.5	95			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite; joint sets are roughly 70 and 50TCA.
1603.6	7.3	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, pale green to pale pink colour, felsic norite; weak to moderate patches of potassic and epidote alteration to interval concentrated around veinlets (striking 60TCA) ; loss of foliation
1656.7	53.1	98			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite
1796.9	140.2	98			OLDI	dark grey, medium-grained, moderately magnetic, OLDI; medium-grained through majority of rock; fine-grained chill margins on either side of contact to FSNR; Upper contact is 45TCA, lower contact is 25TCA.
1823.7	26.8	90			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour, felsic norite; some fractures contains chlorite
1831.1	7.4	0			FSNR	FSNR same as above; very low RQD, mechanical error causing rock to be very broken.
1932.2	101.1	98			FSNR	FSNR same as above; minor bleaching of rock at upper interval and patchy throughout due to small veinlets of epidote.
1991.4	59.2	80			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour with pink patches, felsic norite; some fractures contains chlorite; patches of potassic alteration caused from epidote veinlets, striking 25TCA; interval has a lower RQD
1993.3	1.9	0			FSNR	FSNR same as above; low RQD due to mechanical error.

2042.7	49.4	98			FSNR	FSNR same as above; better RQD; patches of potassic alteration zoned around epidote veins (~50TCA), within these patched zones there is porphyroblastic magnetite grains.
2058.5	15.8	60			QTZT	fine-grained, pinkish white, micaceously altered, very qtz-rich, quartzite; contact margins are 60TCA upper and 40 TCA lower; no chill, distorted partially melted margins.
2141.4	82.9	90			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour with pink patches, felsic norite; minor fractures containing chlorite; patches of potassic alteration caused from epidote veinlets.
2153.2	11.8	60			FSNR	FSNR same as above; increased potassic alteration and epidote veining that carried Pyrite fluids in; veins are measured at 70 and 80TCA for epidote and potassic rich veins are roughly 50 and 60TCA that contain the Py.
2304.9	151.7	98			FSNR	FSNR same as above; small very weak patches of potassic alteration.
2356.3	51.4	60			FSNR	FSNR same as above; lower RQD; possible STRT; increased chlorite veining, causing increasing fracturing and weaker rock; near the zones of intense chlorite veining, there is more porphyroblastic magnetite.
2356.9	0.6	30		FSNR	FLT	Increased chlorite veining, with brecciation of the wall rock within the chlorite vein, rock is very brittle to touch, possible gouge; FLT.
2374.8	17.9	60			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey to dark grey colour with pink patches, felsic norite; lower RQD; possible STRT; increased chlorite veining, causing increasing fracturing and weaker rock; near the zones of intense chlorite veining, there is more porphyroblastic magnetite.
2449.3	74.5	85			FSNR	medium to coarse-grained, anhedral, qtz-feldspar-amphibole and minor biotite, weakly magnetic, light grey, felsic norite; contains minor veinlets of chlorite, extremely brittle and are fracture planes (~30TCA); minor py and po traced throughout the rock.
2458.5	9.2	98	NVS		FSNR	FSNR as above; bracket sample to further sampling.
2468.5	10	98	RGDI		FSNR	FSNR as above; Po-bearing, found as small, ~1mm, SPKS or RGDI blebby, ~1cm, style of mineralization in the FSNR.
2478.4	9.9	98	RGDI		FSNR	FSNR as above; RGDI specks and small 1-2mm blebs of Po found throughout the interval, small <<0.01% amount of Cp found in this interval as well.
2488.1	9.7	98	SPKS		FSNR	FSNR as above (no chlorite veining/ fractures present); Po is found as tiny SPKS throughout the interval.
2498.1	10	98	SPKS		FSNR	FSNR as above; Py is found as tiny specks with possible trace Po.
2507.6	9.5	95	SPKS		FSNR	FSNR as above; tiny specks (1mm) of Po and Py found within the interval randomly throughout with no orientation.
2512.6	5	98	NVS		FSNR	FSNR as above; no visible sulphides.
2514.6	2	60	RGDI	FSNR	EPID	FSNR as above; EPID roughly 5inches in thickness cuts the FSNR in this interval ~75TCA; small 3mm RGDI blebs of Po are found near the margin of the EPID vein; EPID caused minor brecciation within it, with localized clasts of FSNR.
2519.4	4.8	98	SPKS		FSNR	FSNR as above; with minor Po appearing as 1mm specks in the interval; minor epidote veinlets <1mm in size cut the interval at 60TCA.
2523.1	3.7	98	RGDI		FSNR	FSNR as above; increased chlorite veining at 40TCA; near the chlorite veining is where most of the Po resides.
2526	2.9	90	RGDI	STRT	FSNR	medium-grained, anhedral, qtz-feldspar-amphibole, weakly magnetic dark grey, felsic norite; increased chlorite veining causing minor brecciation between veinlets; small pods Po and Cp is found in this interval with Cp almost negligible with respect to Po.
2532.1	6.1	98	SPKS		FSNR	medium-grained, anhedral, qtz-feldspar-amphibole, weakly magnetic, dark grey with white patches, felsic norite with feldspathic melt pods; Minor chlorite veining; Po is still found as 1mm specks throughout the interval.
2535.6	3.5	98	SPKS		FSNR	FSNR as above, with a larger (6-8cm) feldspathic pod; SPKS of Po are becoming less, still found as small 1mm spks throughout the interval.
2536.9	1.3	98	RGDI	QCCV	FSNR	FSNR as above, no feldspathic pods; 2cm wide QCCV that contains Py on the margins of it.
2540.5	3.6	90	SPKS		FSNR	FSNR as above, with small 1-2cm feldspathic pods; some more intense chlorite veinlets causing fracturing; less Po present than previous chlorite veinlets.
2544.7	4.2	90	SPKS		FSNR	FSNR same as above; small spks of Po and Py that are 1mm in size.
2549.6	4.9	98	SPKS		FSNR	FSNR same as above, feldspathic pods are roughly 1-4cm; small specks <1mm of Po and Py found throughout rock.
2553.8	4.2	98	TR		FSNR	FSNR as above; Po and Py found traced throughout the interval.
2558.8	5	98	TR		FSNR	FSNR as above; Py found as trace throughout the interval.

2563.8	5	90	TR		FSNR	FSNR as above; Py is found as TR throughout the interval.
2568.4	4.6	98	SPKS		FSNR	FSNR as above; Py is found as small 1mm spks throughout the interval.
2572.9	4.5	98	SPKS		FSNR	FSNR as above; small 1mm SPKS of Py found throughout the interval.
2574.3	1.4	98			FSNR	FSNR as above; very large feldspathic vein striking at 40TCA with magnetite forming on the margins.
2577.9	3.6	90			FSNR	FSNR as above, feldspathic patches varying 1-4cm in diameter.
2579.2	1.3	98			MFNR	medium-grained (appears more fine-grained compared to FSNR), dark grey, plagioclase-amphibole with minor biotite and minor qtz, weakly magnetic, small patch of feldspathic melt/pod; trace amounts of Po and Py.
2585.3	6.1	30			MFNR	MFNR as above; mechanical error in drilling; minor footage error in above samples, measured forward until low RQD where RQD buried 2' error in measurement.
2633.3	48	98			MFNR	MFNR as above, feldspathic pods are up to 3cm in diameter, transition zone can somewhat seen for 20' beyond the first MFNR interval; minor Po and Py found as trace through the rock.
2792	158.7	98			MFNR	fine to medium-grained, dark grey, plag-amphibole with minor qtz and phenocrystic biotite, weakly magnetic, MFNR with weak feldspathic patches (less common than previous intervals); minor chlorite veining causes fracture planes near the beginning of the interval at roughly 20TCA.
2798	6	98	RGDI		MFNR	fine to medium grained, dark grey, plag-amphibole and minor qtz with phenocrystic biotite, weakly magnetic, MFNR; minor chlorite found along few fractures; Po is found as small 1-4mm blebs or ragged disseminated sulphides.
2803.6	5.6	95	RGDI		MFNR	MFNR as above; Po is found as smaller ragged disseminations of 1-2mm throughout the interval.
2811.3	7.7	20	RGDI		STRT	composed of the MFNR (as above) and GN; interval has very broken rock, with evidence of QCV and brecciation associated to other various fluids, including a very dark matrix, possibly chlorite of its hardness; In these brecciations there is evidence of SU Po and Py.
2820.3	9	98	RGDI		MFGN	fine to medium grained, weakly banded, composed of plagioclase-qtz-amphiboles with small phenocrysts (~1mm) of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag); SU is found as Po and localized at more felsic areas (leucosomes, or felsic pods within the melanosomes). TS was taken out of this interval.
2824.6	4.3	98	SPKS		MFGN	MFGN as above; SU is Po and is found as small specks (1mm or less) localized within the more felsic areas of the leucosomes and melanosomes. TS was taken out of this interval.
2831.4	6.8	98	RGDI		MFGN	MFGN as above; SU is a mix of Py and Po however the majority (close to 90%) is Po, and is localized to more felsic zones, there is also a concentration of more blebby style Po found near the bottom of the interval.
2841.2	9.8	98	BLBS		MFGN	MFGN as above, with the addition of QCCVeinlets cutting the entirety of the interval at ~20-30TCA; found along the chlorite veinlets and fractures there is increase Py and Po is found as blebs; Po and Py are found together in the same blebs, roughly 2% of the SU is Po and 1% being Py. Blebs vary from 0.5-3cm in diameter, localized to the most felsic leucosome in this interval, also happens to be the most fluid induced (QCCVeinlets)
2851.1	9.9	98	RGDI		MFGN	fine to medium grained, weakly banded, composed of plagioclase-qtz-amphiboles with small phenocrysts (~1mm) of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag); SU is found at mostly Po is small specks and ragged disseminations pervasively found near felsic mineral. More of a concentration of Po found near the bottom of the interval.
2860.9	9.8	98	RGDI		MFGN	MFGN as above; SU are found as large ragged disseminations and/or small blebs (1-2cm diameter). SU is divided up 1% Po and 1% Py. Py is found as a "halo" around the blebs of the Po.
2870.3	9.4	90	SPKS		MFGN	MFGN as above; SU is Po and found DISS throughout the rock in the felsic rich zones, or as tiny SPKS throughout the rock as well. 2 SPKS of Cp had been found, however not significant enough for ESTSULP.
2880.3	10	98	SPKS		GRBX	GRBX; Matrix: fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag; Clasts: vary in size, many felsic clasts (qtz and plag in composition) roughly 2mm-1cm in size, many mafic clasts ranging from 0.5cm-2cm, rare (1 clast) of GRGN ~1ft diameter; SU appear as primarily Py DISS throughout the rock.

2888.2	7.9	98	SPKS		GRBX	GRBX; Matrix: as above; Clasts: few mafic clasts 0.5-2cm, rare mafic clasts >2cm (up to 4cm), many granitic (felsic) clasts, rare MFGN clast? 2ft diameter, few GRGN clasts with a size hard to determine with possible partial melt near its margins; SU is Py found DISS or specked through out the interval.
2892	3.8	98	SPKS		GRBX	GRBX; Matrix: as above; Clasts; many granitic clasts 1mm-2cm in diameter, few mafic clasts 1mm diameter, rare (1) large 6cm diameter clast; SU is Py found as SPKS throughout interval.
2893	1	98	RGDI		GRBX	GRBX; Matrix: as above; Clasts: few mafic clasts 1-2cm diameter, few granitic clasts no bigger than 1cm diameter; SU is Po (~3%), Py (~2%), Cp (<<1%), Py is found as halo around the Po which is RGDI to blebby, and Cp is found as small SPKS close to the Po RGDI's.
2896.9	3.9	98	RGDI		GRBX	GRBX?; Matrix; more plagioclase and qtz rich, with minor k-spar closer to the top of the interval, breccia at the bottom of the interval appears to be in leucosome style zones of a MFGN; Clasts: many mafic clasts ranged from 0.5cm-2cm diameter; SU is Po and small 1cm ragged disseminations.
2900.6	3.7	98	RGDI	MFGN	MTBX	Fine-grained, amphibole and plagioclase rich with minor magnetite, leucosomes of the GN appear to have rounded-partially melted fine-grained mafic clasts, moderately magnetic, weak intensity of fabric, MTBX/MFGN; fabric is ~50TCA; SU is Po seems as RGDI and is found in the MTBX (leucosome style) zones.
2904	3.4	98	RGDI	MFGN	MTBX	MTBX/MFGN as above; SU is Po and found primarily within the MTBX "leucosomes" within the MFGN.
2907	3	98	RGDI	MFGN	MTBX	MTBX/MFGN as above; Po is found primarily within the MTBX "leucosome" in the MFGN of the interval.
2910.4	3.4	98	BLBS	MFGN	MTBX	MTBX/MFGN as above; 4% Po, 0.8% Pn, 0.2% Cp found as large BLBS or RGDI. Pn is exsolved from the Po, found as an interstitial sulphide to the Po, Cp found as very very small stringer next to some of the Pn/Po. All sulphides are found in the MTBX "leucosome" bands of the MFGN.
2915.1	4.7	95	BLBS	MFGN	MTBX	MTBX/MFGN as above; 3% Po found as large BLBS (1cm diameter), tiny <1mm SPKS of Cp that is ~0.01% of ESTSULP.
2919.9	4.8	98	RGDI	MFGN	MTBX	MTBX/MFGN as above; 2% Po found in rock with very minor Py and Cp. Po appears as RGDI/BLBS, Cp and PY found as halos around the Po as SPKS.
2924.7	4.8	98	SPKS	MFGN	MTBX	MTBX/MFGN as above; 0.5% Po found in felsic zones associated with the MTBX as SPKS.
2929.8	5.1	98	SPKS	MFGN	MTBX	MTBX/MFGN as above; 0.5% Cp found in felsic zones associated with the MTBX, Cp found as small SPKS 1mm or smaller.
2933.6	3.8	98	SPKS	MFGN	MTBX	MTBX/MFGN as above; small spks of 0.3% Cp found within the MTBX felsic zones instead of the MFGN.
2937.8	4.2	98	SPKS	MFGN	MTBX	MTBX/MFGN as above; small SPKS of Po found throughout the MTBX within the MFGN.
2941.7	3.9	80	SPKS		GRBX	GRBX; Matrix: fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag; Clasts: many 1-3mm fine-grained magnetic mafic clasts, few large 2-3cm clasts of mafic material, rare very large (0.3-0.5ft) clasts of mafic material; SU are Po and are tiny SPKS found randomly throughout the rock.
2946.8	5.1	80	NVS		GRBX	GRBX; Matrix as above; Clasts: as above; No visible sulphides.
2950.8	4	80	NVS		GRBX	GRBX; Matrix: as above; Clasts: many small 1-3mm fine-grained, dark grey, magnetic mafic clasts and few of the same but 1cm diameter.
2959.1	8.3	90			MTDB	dark grey/green, fine to medium-grained, moderately magnetic, amphibole and plag rich with plag phenocrysts up to 1cm in diameter, MTDB; contains felsic melt pods within the MTDB, and within some of the melt pods they have minor epidote alteration.
2986.2	27.1	70			GRBX	GRBX; Matrix: fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag; Clasts: many 1-3mm fine-grained magnetic mafic clasts, few large 2-3cm clasts of mafic material, rare large (5cm-15cm) MTDB clasts rare very large (1.5ft) clast of recrystallized GRGN; SU are Po found as small RGDI in the interval
2993.1	6.9	90			UM	fine to medium grained, pale dark green, mostly amphibole and minor plagioclase, Ultramafic; trace amounts of Po and Cp found throughout the interval.
2998.7	5.6	0			LC	LC due to driller error.
3003.7	5	98			UM	fine to medium grained, pale dark green, mostly amphibole and minor plagioclase, Ultramafic; trace amounts of Po and Cp found throughout the interval.

3015.7	12	10	GRBX	STRT	GRBX determined by the matrix, however the clasts are hard to determine due to the amount of rock fragments in the interval; Matrix:fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag, minor magnetite causing weak magnetism; Clasts: undefined; minor slickenline perpendicular TCA>
3025.7	10	70		GRBX	GRBX; Matrix: fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag, minor magnetite causing weak magnetism; Clasts: many fine-grained mafic clasts that are close to the top of the interval, very large clasts near the bottom of the interval that have the appearance that the GRBX is apart of the MFGN, as it seems to be melted into the GN.
3067	41.3	98		MFGN	fine to medium grained, weakly banded, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag)
3074.9	7.9	98		GRBX	GRBX; Matrix:fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), white-light grey and weak pink in colour with very weak chlorite alteration causing a greenish tinge to some of the plag, minor magnetite causing weak magnetism; Clasts: very large MFGN clasts, the appear of the rock is that the GRBX are small veins surrounding the clasts; this breccia is clast-supported (>80% clasts).
3086.8	11.9	98		MFGN	medium to coarse grained, weakly banded, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag; near the bottom of the interval is where a leucosome begins to coarsen, likely due to recrystallization of the GN.
3107	20.2	98		GRBX	GRBX; Matrix:fine to medium-grained, granitic in composition (k-spar, plag, qtz, minor amphibole), pink-white-light grey in colour with very weak chlorite alteration causing a greenish tinge to some of the plag, minor magnetite causing weak magnetism; Clasts: vary with few recrystallized granitic clast that are 2-4cm in diameter, many small 1-3mm qtz-rich clasts, and rare mafic clasts; 2 zones indicated in the photo are partial melt within the GRBX, very dark matrix, qtz-removed clasts.
3112.9	5.9	98		GRGN	fine to medium-grained, qtz-k-spar-plagioclase dominant with minor amphibole, strongly banded, weakly magnetic, GRGN; bands appear to be parallel TCA.
3157.1	44.2	98		GRGN	fine to medium grained (with some coarse pods), qtz-k-spar-plagioclase-amphibole, pink-white-dark grey, weakly to moderately banded, weakly magnetic, GRGN; contains additional, though minor, potassic alteration, causing a dark pink colour in certain patches.
3194.5	37.4	98		GRGN	fine to medium grained (with some coarse pods), qtz-k-spar-plagioclase-amphibole, pink-white-dark grey, none to weakly banded, weakly magnetic, GRGN; contains additional, though minor, potassic alteration, causing a dark pink colour in certain patches, minor epidote alteration patches.
3276.6	82.1	98		MFGN	fine to medium grained, weakly banded, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag; some of the leucosomes are either k-spar rich, or patchy potassic alteration has effected the leucosomes giving a slight pinkish colour.
3308.5	31.9	98		MTDB	dark grey/green, fine to medium-grained, moderately magnetic, amphibole and plag rich , MTDB; contains felsic melt pods within the MTDB, and within some of the melt pods they have minor potassic alteration, and clasts of the MTDB in it.
3312.3	3.8	98		MFGN	fine to medium grained, weakly banded, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; alternating bands leucosomes (more plag and qtz vs. amphibole) and melanosomes (more amphibole and magnetite vs. qtz and plag)
3313.1	0.8	98		MTDB	dark grey/green, fine to medium-grained, moderately magnetic, amphibole and plag rich , MTDB
3360.5	47.4	98		MFGN	fine to medium grained, weak to no banding, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; however appearance is that of a granite, no lenses identified.
3371.3	10.8	80		MTDB	dark grey/green, fine to medium-grained, moderately magnetic, amphibole and plag rich , MTDB; contains felsic melt pods within the MTDB, and within some of the melt pods they have minor potassic alteration, and clasts of the MTDB in it.

3390	18.7	98			MFGN	fine to medium grained, weak to no banding, composed of plagioclase-qtz-amphiboles with small specks of magnetite, moderately magnetic, MFGN; however appearance is that of a granite, no lenses identified - EOH
------	------	----	--	--	------	---

LOG

DEPTH	LENGTH	RQD	ORE	MINOR ROCK	ROCK	DESCRIPTION	
0	0					Collar	
25.8	25.8	0			CASE	Casing	
60.1	34.3	90			FSNR	medium grained, medium grey, non magnetic, plag and amph rich, equigranular, felsic norite; lower RQD containing minor fractures, likely caused from the above casing getting set and initial drilling; little to no alteration.	
201.1	141	98			FSNR	FSNR as above; more competent rock probably because of the greater distance from the collar. Rock type is typically more competent; unit appear to develop weak potassic alteration as the unit moves downhole.	
212.7	11.6	0			GC	GC of FSNR; error with core barrel written on a block.	
338.1	125.4	90			FSNR	FSNR as above; unit becomes very weak to weak to moderate potassic alteration moving downhole, and weak to moderate chlorite alteration as well.	
352.5	14.4	85			FSNR	medium to coarse grained, medium grey - pinkish green, non magnetic, plag and amph rich, chloritic and postassically altered, equigranular, felsic norite; unit contains minor veinlets of chlorite that cut the rock at various angles, commonly seen at 15TCA, creating weak fracture planes near parallel TCA; bottom of the interval the unit is very epidote altered in contact with the OLDI dike.	
355.7	3.2	70			OLDI	black, fine-grained, amph and plag rich, magnetic, olivine diabase; OLDI has strong very sharp contact margins that strike roughly 15-20TCA, but appear irregular but with a strong defined chill margin.	
361.8	6.1	85			FSNR	medium grained, very weakly altered (potassic and chloritic), plag and amph, non magnetic, medium grey, felsic norite; few fracture planes appear to have a light hematitic dusting.	
386.8	25	60			OLDI	fine to medium grained, magnetic, dark grey to black, plag and amph rich, OLDI; no visible chill margins, unit also appears very broken and mixed, driller had a dropped box, unit appeared close to correct, no major changes.	
392.1	5.3	80			FSNR	FSNR similar to above the OLDI; the unit appear to have strong epidote and potassic alteration associated near the OLDI dikes. unit appears lighter pink colour, or green when the veins of epidote are more prominent.	
463.7	71.6	90			FSNR	medium to coarse grained, chlorite and potassic alteration, plag and amph rich, non magnetic, FSNR; FSNR has patchy epidote alteration and veins that essentially cut perpendicular TCA, directly around these epidote veins there is medium-grained FSNR instead of Coarse grained.	
605.9	142.2	90			FSNR	FSNR similar to above, equigranular coarse grained, with no patches of coarse or medium grained associated to epidote veins and patches; Near the bottom of this interval the unit appears to have minor qtz flooding.	
661.1	55.2	80			FSNR	FSNR similar to above, equigranular with patches of qtz flooding in the FSNR, most fractures appear to be caused by weak chloritic planes or minor hematitic alteration.	
664.9	3.8	0			FSNR	GC	Pieces of FSNR are found in this interval, however, due to the fact it is very ground core, a proper RQD cannot be determined.
672.2	7.3	98			FSNR	FSNR similar to above, qtz flooding appears to still be present, however the small interval does not contain any indications of having epidote veining or alteration to the rock.	
673.9	1.7	50			QCV	FSNR	medium grained, medium grey, non magnetic, plag and amph rich, fsnr; FSNR has a strong quartz vein that strikes at 30TCA, with its margins it has strong potassic alteration and a bleaching feature from the veins alteration fluids.
760.2	86.3	85			FSNR	FSNR	medium grained, medium grey, weakly chloritic alteration, very weak potassic alteration, plag and amph, non magnetic, FSNR; FSNR has patches of bleached areas that are around veinlets of epidote, veinlets appear to strike near perpendicular TCA.
761.7	1.5	90			FSNR	FSNR as above, contains a large potassic alteration patch that appears to strike at 30 TCA parallel to a fracture that was created in the potassic alteration.	
811.8	50.1	90			FSNR	FSNR as above the potassic alteration patch; FSNR has small 0.2-0.3' patches of potassic alteration that do not follow a strike; most fracture planes contains chloritic planes that are very brittle	
814.2	2.4	90			FSNR	QCCV	The interval is 50% FSNR described as above with strong potassic alteration around the margins of the veins; the QCCV in the veins that take up the other 50%, striking at 30TCA on the upper contact and 40TCA on the lower contact is a QCCV with crystalline euhedral qtz grained within a matrix of chlorite and fragments of FSNR strongly potassic altered.

942.3	128.1	90			FSNR	medium grained, medium grey, weakly chloritic alteration, very weak potassic alteration, plag and amph, non magnetic, FSNR; FSNR has patches of bleached areas that are around veinlets of epidote, veinlets appear to strike near perpendicular TCA; @270m there is a chloritic vein that is 0.1' thick, striking at 45TCA.
947.3	5	70			FSNR	FSNR similar to above, has a chloritic veinlets striking roughly 5-10TCA covering most of the interval and creating a fracture carried down the core, very weak epidote patches that appear to have very very weak pyrite contained within them and a halo of potassic alteration to the plagioclase around the epidote patches.
1006.5	59.2	90			FSNR	medium grained, equigranular, medium grey, weakly chloritic alteration, very weak potassic alteration, plag and amph, non magnetic, FSNR
1008.7	2.2	60			FSNR	FSNR as above; has a much lower RQD with fractures striking at 45-50TCA with no apparent slickenlines or evidence of a STRT.
1022.7	14	90			FSNR	FSNR as above; higher RQD again, no apparent significant breaks or fractures.
1027	4.3	50		STRT	FSNR	FSNR similar to above, minor moderate to strong potassic alteration; lower RQD with apparent slickenlines on the fractures that strike roughly 30TCA, slickenlines appear on chloritic fracture planes.
1111.9	84.9	98			FSNR	FSNR similar to above, no visible chloritic or potassic alteration to this interval, very little fracturing, very competent rock, equigranular; minor hematite stained healed fractures.
1119.3	7.4	70			FSNR	FSNR similar to above, very strong potassic and chloritic/epidote alteration to the unit with bands of chlorite and epidote striking perpendicular TCA and potassic alteration being the halo to those bands, with the grained of the fsnr still intact; possible strt?
1304	184.7	95			FSNR	coarse grained, equigranular, medium grey, weakly chloritic alteration, plag and amph, non magnetic, FSNR; FSNR has patches of bleached areas that are around veinlets of epidote, veinlets appear to strike near perpendicular TCA
1310.6	6.6	60			FSNR	FSNR similar to above; contains multiple more chloritic veinlets that appear to have caused a weakness; this is a patch of unusual low RQD.
1503.9	193.3	95			FSNR	coarse grained, light to medium grey, equigranular, plag and amph (minor qtz), weakly magnetic (patchy), FSNR; felsic norite has patchy weak magnetism; unit appears darker due to a thin greasy film covering the rock (reference to photos); unit also has one minor patch roughly 0.5' in diameter of more plag (bleached?) rich norite, comparatively small and near the bottom of this interval.
1507	3.1	70			FSNR	FSNR similar to above, weakly chloritically altered, and has a chlorite vein travelling at 10TCA that has a long fracture associated with it.
1575.9	68.9	90			FSNR	FSNR similar to above, not a low RQD, well competent rock, near the bottom of the interval in contact with another unit it becomes altered with potassic alteration.
1601.1	25.2	70			APL	very fine grained, pink to light grey, qtz and feldspathic composition, non magnetic, APL dike; the dyke has sharp contacts at 10TCA and changes to 25TCA moving down at the upper contact, the lower contact is a broken zone and cannot be determined; margins of the contact with FSNR contains significant chlorite.
1611.1	10	80			FSNR	FSNR similar to above the APL dyke; the unit has some mechanical break, and also has patchy chlorite and potassic alteration throughout the unit.
1660.4	49.3	90			FSNR	coarse grained, light to medium grey, equigranular, plag and amph (minor qtz), weakly magnetic (patchy), FSNR; felsic norite has patchy weak magnetism;
1737.6	77.2	98			FSNR	FSNR similar to above; this interval contains slightly more chloritic alteration to the mafics of the FSNR; there also appears to be patchy epidote alteration, very weakly, causing a slightly greenish discolouration with very rare potassic alteration associated with it.
1797.1	59.5	90			FSNR	dark grey, medium to coarse grained, weakly to moderate patchy magnetism, very weak chlorite alteration plag and amph rich, FSNR; minor biotite grains appear present in the fsnr, the rock appears darker, believed to be caused from polishing from the drill; minor chlorite veinlets cause increased fracturing along them, unit is still of high RQD; patchy medium grained potassic patches.

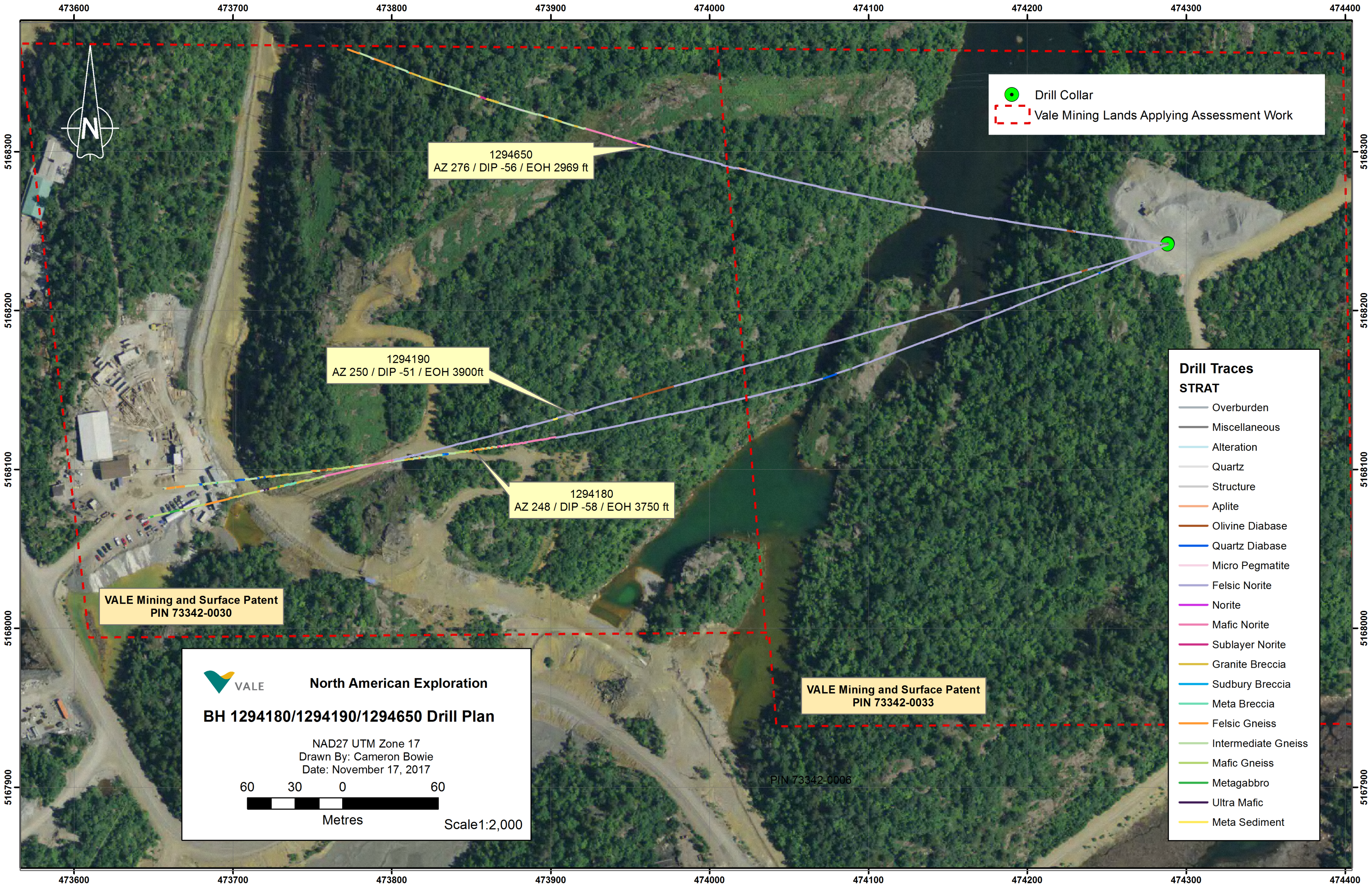
1808.9	11.8	60		FSNR	FSNR similar to above, no polishing feature rock appears light grey with weak to moderate chlorite alteration to the mafics; low ROD appears to be caused from a mix of mechanical error and increased intensity of chlorite veinlets along various angles causing weak planes.
1854.9	46	90		FSNR	dark grey, medium to coarse grained, weakly to moderate patchy magnetism, very weak chlorite alteration plag and amph rich, FSNR; minor biotite grains appear present in the fsnr, the rock appears darker, believed to be caused from polishing from the drill; minor chlorite veinlets cause increased fracturing along them, unit is still of high ROD; veinlets appear to consistently strike along 80TCA with no fractures and other fractures along 40TCA.
1857.7	2.8	80	QCCV	FSNR	apart of the FSNR package evidence of it still exists in the unit, however, very intense veinlets have caused strong alteration to the FSNR; potassic and chloritic alteration are strong and strike appears to be roughly 80-90TCA.
1912.2	54.5	90		FSNR	FSNR similar to above the QCCV/strong alteration patch; unit does contain minor veinlets striking 80TCA with weak intensity throughout the unit causing patches of fine-grained FSNR as a halo of those alteration veinlets.
1922.8	10.6	85		IFNR	medium grained, light grey, plag and amph rich, weakly magnetic, equigranular, weakly chloritically altered, inclusion felsic norite; the inclusions appear to be of potassic composition with a strong, dark pink colour, inclusions make up 5% of the interval and are average 3-4cm in diameter.
1970.9	48.1	80		APL	fine grained, medium grey to light pink, kspar and qtz rich, none magnetic, aplite dyke; dyke has a sharp contact with the FSNR at 45TCA, the first 3ft of the interval are very broken, I believe to be caused from mechanical error, most fractures are on weak planes such as chlorite but no structural movement indicated; APL has patches of chloritically altered fragments of NR? as seen by bands of dark green composition in the photo. These bands can be up to 0.8' in thickness; bottom contact 60TCA
1987.1	16.2	85		NR	APL as above and chloritically altered NR; the unit at the bottom grades to less altered MFNR containing minor <2% Py+Po pervasively throughout MFNR; there appears to be patches of APL found throughout the fine-grained, chloritically altered NR that appears similar to the bands/clasts of the "NR" in the above interval.
2047.5	60.4	90		MFNR	medium grained, biotite plag and amph rich, medium to dark grey, MFNR; MFNR contains minor <5% total interval of qtz-feldspathic inclusions of phenocrysts; contains <2% Py with minor Po pervasive throughout the interval; minor chlorite veinlets cause fractures that are typically shallow between 20 and 30TCA.
2048.9	1.4	0		FLT	Composition seem similar to both the APL below and the MFNR above, though significant amounts of gouge material found along fractures and seams of very brittle rock; direction unknown, however, one consolidated rock appears to have a fracture full of gouge at roughly 30TCA.
2056.7	7.8	85		APL	light grey to very light pink, fine grained, qtz and kspar rich, minor sericite; aplite dyke; contains a 1cm qtz vein with margins of Py striking at 20TCA; upper contact margin is within the FLT, lower contact margin is steep at 15TCA.
2078.7	22	90		MFNR	medium grained, biotite plag and amph rich, medium to dark grey, MFNR; low intensity chlorite veinlets cause the rock quality to be lessened; MFNR appears to have no noticeable inclusions of qtz-feldspathic composition.
2150.7	72	98		MFNR	MFNR similar to above; intensity of chloritic veinlets has decreased considerably, and minor amounts (<1% total interval) appears to have qtz-feldspathic phenocrysts appear again, these are potential melt pods?
2153.3	2.6	98	SPKS	MFNR	MFNR as above, unit is in contact with the IGN below; SU appears as tiny 1mm spks of Cp+Py_Po, though the Cp very fine and taken away from the EST calc; the SPKS of SU appear to be in close proximity to the qtz-feldspathic melt pods/pheno's.
2154	0.7	80	RGDI	IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, IGN?; interval is small and not representative of the very weak banding seen downhole; believed to be the contact of the MFNR and the GN; SU present is Po dominant with 4%, but 1% is Cp, potential for PGE's.
2156.6	2.6	98	RGDI	IGN	IGN as above, no longer in direct contact with the MFGN, unit has very coarse thick weak banding of the different melanosomes and leucosomes within the IGN; interval contains roughly 1%Po and 1%Py mixed in 1cm RDGI found.
2181	24.4	98		IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, moderate to weak thick to thin banding of leucosomes and melanosomes, IGN; striking of the bands appear to be at roughly 75 to 80TCA; SU composes of roughly 1-2% of total interval, most of which is Py.
2195.3	14.3	90		GRBX	medium to coarse grained, pinkish grey, qtz feldspar rich (kspar+plag), GRBX; contains clasts of IGN and MFGN that range in sizes from 1cm to 4cm in diameter; minor, <1-2%, Po+Py are found through the GRBX

2237.8	42.5	98		IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, moderate to weak thick to thin banding of leucosomes and melanosomes, IGN; striking of the bands appear to be at roughly 75 to 80TCA; banding also appear to taper and become less visible as it transitions back to GRBX with digested contact margins likely due to the; minor kspar bands found near the bottom of the interval as well.
2263.4	25.6	95		GRBX	medium to coarse grained, pinkish grey, qtz feldspar rich (kspar+plag), GRBX; contains clasts of IGN and MFGN that range in sizes from 1cm to 4cm in diameter; unit borders on appearance of IGN, with digested clast margins, possible this could be a MTBX unit of partially melted SUBX or GRBX; minor, <1-2%, Po+Py are found through the GRBX
2286.2	22.8	95		IGN	IGN is as above the GRBX above the unit, the banding appears to strike at roughly 50TCA with possible larger melanosome "pods" (possible clasts) caught within some of the banding near the bottom of the interval.
2301.9	15.7	90		GRGN	medium to coarse grained, felsic dominant, kspar qtz and plag rich, weak poor banding, chloritically altered, GRGN; bands strike roughly 60-70TCA; GRGN appear to have veinlets of chlorite pass through minor fractures! mafic dominant melanosomes appear fine grained.
2321.6	19.7	85		IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, moderate thick to thin banding of leucosomes and melanosomes, IGN; bands strike at 70TCA with rare to minor 1-2% Py found replacing some of the mafics is some of the melanosome bands; rare potassic bands found weakly through the IGN.
2323.6	2	98		APL	fine to medium grained, kspar rich, apl dike/ block? within the GN; it appears to alter the surround IGN, with SUBX at the bottom of the interval and chloritic/epidote veinlets.
2324.6	1	98		SUBX	2d5 SUBX, that appears to have been moderately chloritically altered to the matrix, giving a minor appearance of subigneous, but is alteration related, so the identifier of aphanitic was given.
2369.1	44.5	75		IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, moderate thick to thin banding of leucosomes and melanosomes, IGN; bands strike at 70TCA with rare to minor 1-2% Py found replacing some of the mafics is some of the melanosome bands; rare potassic bands found weakly through the IGN; moderate epidote veins/veinlets found striking parallel TCA throughout the interval, with a lot of blocky broken rock;
2382.5	13.4	30	IGN	STRT	IGN similar to above with very strong epidote and hematitic alteration to plagioclase grains, strong epidote alteration veins cutting the rock as well; unit appears very blocky and broken with certain fractures contains sub-parallel slickenlines indicating a possible STRT.
2405.6	23.1	10		FLT	IGN as above, the unit is extremely low RQD due to a FLT; the identifiers of the FLT is the gouge material found on multiple fracture planes, with some larger material that is still consolidated has coarse grains in a gouge matrix indicating large movement; strong epidote and hematitic alteration with material that is still present.
2433	27.4	70		IGN	IGN similar to above; contains large 0.5' epidote veins that strike perpendicular TCA cross cutting some of the larger weak banding and moderate potassic alteration or kspar throughout the interval.
2458.4	25.4	90		IGN	medium to coarse grained, qtz and feldspar rich, with 30% fine grained mafics, moderate thick to thin banding of leucosomes and melanosomes, IGN; bands strike at 70TCA; weak potassium found through the interval, possible GRBX? with potential melted patches with potential mafic partially-digested clasts?
2463	4.6	98		GRBX	medium to coarse grained, light grey, qtz and plag rich (tonalitic), GRBX; contains clasts of IGN and MFGN that range in sizes from 1cm to 4cm in diameter, with rare 8-10cm MF clasts
2465.5	2.5	98	TR	GRBX	GRX similar to above with what matrix is visible; most of the rock (2') is taken up by a large MF block within the GRBX; minor SU found within the block of the GRBX, most found within the matrix, though appears to be Po+py.
2466	0.5	98	RGDI	GRBX	GRBX as above the last sample, contains clasts that range from 1-3cm, mostly mafic dominant clasts, with few felsic clasts appearing to be GN in origin; the largest clast in this small sample appears to have Po+Py "wrapping" around the clast.
2468.5	2.5	98	SPKS	GRBX	GRBX as above; contains no significant SU that appear to have notable texture; SU of Po+Py are found as SPKS near or in contact with small 1cm or less MF clasts, appearing to form in the matrix.
2473	4.5	98	SPKS	GRBX	GRBX as above; clasts appear to be dominantly felsic in composition with rare MF compositioned clasts, these clasts appear larger (-4-6cm); there appears to be very minimal SU, only ones visible at 3mm SPKS that appear as clasts themselves.

2474.5	1.5	98	RGDI	GRBX	GRBX similar to above compositionally, it is mostly felsic in composition, contains a minor pinkish colour to more coarse grained kspars; RGDI of po+py appears to be seen throughout the matrix weaving between the felsic the coarse grained felsics; the felsics could be large granitic clasts?: minor chloritically altered mafics found.
2477.9	3.4	98	NVS	GRBX	GRBX appears similar to above with large granitic clasts with a potassic rich, slight pink-ish colour to the rock vs. other rocks; near the bottom of the interval it appears to have a larger MF block; unit contains no apparent visible sulphides; weak chloritic alteration to rare small mafics.
2480.3	2.4	98	RGDI	GRBX	medium to coarse grained, light grey, qtz and plag rich (tonalitic), GRBX; differs from previous sample, lack of kspar present, no larger as granitic and appears more tonalitic again; mafics appear to dominant in this interval again, with SU of Po+Py found replacing mafics (possible clasts?) there appears to be a weak chloritic halo to some of the SU.
2484.3	4	98	RGDI	GRBX	GRBX exactly as above, a continuation of the same textures and clasts; RGDI or Po+Py found with halos of chlorite altered mafics indicating a possible clast? RGDI largest is 1.5cm in diameter.
2486.8	2.5	98	SPKS	GRBX	GRBX similar to above, appears to be more clast-supported than matrix-supported as the other samples previously; SU appear less visible with the abundance of clasts and MF composition; Po+Py appears as SPKS found in the matrix of the GRBX.
2490.2	3.4	98	RGDI	GRBX	GRBX similar to above, still clast-supported (or so it appears) with a larger GR felsic clast that is 6-8cm in diameter that contains SU around its margins; larger RGDI is found at the margin of the GR clast and is 2cm in diameter, other 1cm RGDI or SPKS are found in the matrix, between certain mafic clasts; strong Py appears to be "mixed" in the other SU.
2494.3	4.1	98	NVS	GRBX	possible GRBX? or a flood of some kind; It appears to potentially be mafic clast-supported GRBX with small veins of granitic matrix.
2496.3	2	98	SPKS	GRBX	GRBX similar to above the last interval, classic grbx with a large chloritically altered mf clast, minor Su found at the margins of the large MF clast; This is a bracket sample to the more mineralized section of the hole.
2498.9	2.6	98	RGDI	GRBX	Unit is apart of the GRBX, however, this appears to be a full 3' large, chloritized MF block within the GRBX; it contains a vein that appears to travel near-parallel TCA; The vein contains most of the SU, the vein could be the matrix of the GRBX, however it has been completely replaced by the SU; Su appears along the vein as mineralized blebs concentrated together; Po+Py, majority of the SU is Po with minor Py visible on the margins.
2503.5	4.6	80	SPKS	GRBX	medium to coarse grained, light to dark grey, qtz and plag rich, GRBX; it appear the matrix might be noritic which would compositionally classify it as IBNR; though in patches it still seem tonalitic as above; micro fracture in the matrix appear to contain the minor Po+Py SPKS (1-3mm) near the fractures, possibly the veinlets carried the fluids in? minor Cp appears as well.
2508.8	5.3	98	SPKS	SLNR	dark grey, weakly magnetic, SU-rich (though DISS), SLNR; matrix appears weakly throughout the unit as being 5-10%, clast-supported with apparent MFNR block (melanoritic) strongly DISS mineralized in comparison to most MFNR; SU present is primarily Po with rare to minor Py.
2514	5.2	90	SPKS	SLNR	SLNR similar to above, clasts appear the same though the matrix appears to be slight more present from 10-15% of the interval, appears possibly granitic or noritic? light to dark grey matrix; most SU appear to concentrate as slight larger BLBS around the matrix, through weak DISS SU are throughout the block.
2518.6	4.6	98	DISS	SLNR	SLNR similar to above, there appears to be less matrix as the sample above the previous with 5-10% matrix; SU are found DISS throughout the MFNR block.
2523.7	5.1	90	DISS	SLNR	SLNR as above, with strong DISS Po+Py throughout the MFNR, with stronger concentrations found near the matrix in contact with the blocks.
2527.7	4	90	BLBS	GRBX	medium to coarse grained, light grey, qtz and plag rich minor kspar, GRBX; contact a large ultramafic block? (thin section taken to confirm and test the thin section process in the future); BLBS of Py are found on the margins of the UM block.
2528.9	1.2	0		SHR	Minor shear structure found on the contact margin of GRBX and GN; appears to strike roughly 50-60TCA, though not discernible; unit contains many small veinlets of chlorite.
2647.2	118.3	98		IGN	Medium to coarse grained, some recrystallized blocks, plag and qtz rich with 40% fine grained mafics and rare kspar, thickly well banded IGN; IGN bands strike roughly 50TCA; contains minor patches at the upper and lower contact of this interval of possible MTBX? MTBX is still FW rocks, easy for datamine modeling. They are possibly transition zones or partially melted zones in contact with the GRBX?

2728.9	81.7	95			GRBX	well-developed, fine to coarse grained, 20-30%clastic, plag qtz rich w/ minor kspar, GRBX; breccia clasts of medium grained norites and/or MFGN, rare felsic clasts, fine-grained mafics apart of the matrix; rare SU of Po+Py <1% of total interval TR in matrix; weak epidote veinlets found to be 1cm thick striking at 40TCA.
2735.7	6.8	90			IGN	Medium to coarse grained, some recrystallized blocks, plag and qtz rich with 40% fine grained mafics and rare kspar, thickly poorly banded IGN; possible IGN block within the GRBX with the unit on both sides of this smaller interval, poor banding possibly striking 80°; very poor marginal contacts with the GRBX, partially melted or recrystallized contacts?
2759.5	23.8	95			GRBX	GRBX similar to the GRBX above the IGN block; the unit differs with a strongly chloritic alteration to both the matrix and the clasts with the rock having a pale-green tinge to the rock both mafics and felsics (limited to the kspar and the plagioclase); unit contains weakly banded MFGN block that are up to 0.6' in diameter.
2768.4	8.9	98			GRGN	medium to coarse grained, kspar plag and qtz rich, pink grey colour, poorly banded, GRGN; GRGN appears to also have strong hematitic? alteration with a very dark pink zone in the middle band of the rock; other mafic minerals appear fine grained and very weakly chlorite altered.
2773	4.6	90			MTBX	Unit seem weakly banded (foliated) with coarse grained textures and granitic in origins GRGN or GRBX; However strong recrystallization of minerals up to 3cm makes "clasts" vs large bands difficult to determine with a partially melted indistinguishable matrix.
2817.1	44.1	98			IGN	Medium to coarse grained, some recrystallized blocks, plag and qtz rich with 40% fine grained mafics and rare kspar, thickly poorly banded IGN; the poor banding makes the rock appear more "brecciated" likely pods that have collected.
2886	68.9	95			GRGN	medium to coarse grained, pinkish grey, kspar and qtz dominant with weak mafics, poorly to moderately banded, GRGN; the leucocratic lenses appear to be dominantly feldspar (plag and kspar) and contains very little qtz, the melanosomes are amph and plag rich with very minor qtz; weakly chloritized mafic minerals.
2893	7	30		GRGN	STRT	GRGN as above; contains strong epidote and potassic alteration through the STRT; unit has a low RQD with fractures occurring parallel to the veining/alteration are 20TCA; minor Py was found throughout the STRT within the fractures.
2934.2	41.2	98			IGN	Medium to coarse grained, some recrystallized blocks, plag and qtz rich with 40% fine grained mafics and rare kspar, thickly poorly banded and strong thin banding closer to the top of this interval further from the kspar rich areas.
2969.3	35.1	98			GRGN	medium to coarse grained, pinkish grey, kspar and qtz dominant with weak mafics, poorly banded, GRGN; the leucocratic lenses appear to be dominantly feldspar (plag and kspar) and contains very little qtz, the melanosomes are amph and plag rich with very minor qtz; weakly chloritized mafic minerals; Unit border on possibly being IGN due to the increase in melanosomes and mafic content through the GN.

Appendix II – Drill hole Plan map



● Drill Collar
 Vale Mining Lands Applying Assessment Work

1294650
 AZ 276 / DIP -56 / EOH 2969 ft

1294190
 AZ 250 / DIP -51 / EOH 3900ft

1294180
 AZ 248 / DIP -58 / EOH 3750 ft

VALE Mining and Surface Patent
 PIN 73342-0030

VALE Mining and Surface Patent
 PIN 73342-0033

North American Exploration
BH 1294180/1294190/1294650 Drill Plan
 NAD27 UTM Zone 17
 Drawn By: Cameron Bowie
 Date: November 17, 2017

60 30 0 60

 Metres Scale 1:2,000

- Drill Traces**
- STRAT**
- Overburden
 - Miscellaneous
 - Alteration
 - Quartz
 - Structure
 - Aplite
 - Olivine Diabase
 - Quartz Diabase
 - Micro Pegmatite
 - Felsic Norite
 - Norite
 - Mafic Norite
 - Sublayer Norite
 - Granite Breccia
 - Sudbury Breccia
 - Meta Breccia
 - Felsic Gneiss
 - Intermediate Gneiss
 - Mafic Gneiss
 - Metagabbro
 - Ultra Mafic
 - Meta Sediment

PIN 73342-0006

Appendix III – Drill hole Cross-section maps



Borehole 1294180

Northwest-Southeast cross-section - looking Southwest

Azimuth = 248 Dip = -58

Mining & Surface Patent PINs 73342-0030/73342-0033, lots 3 and 4 con 3 Levack twp

End of Hole = 3750 ft

Scale 1" = 250'

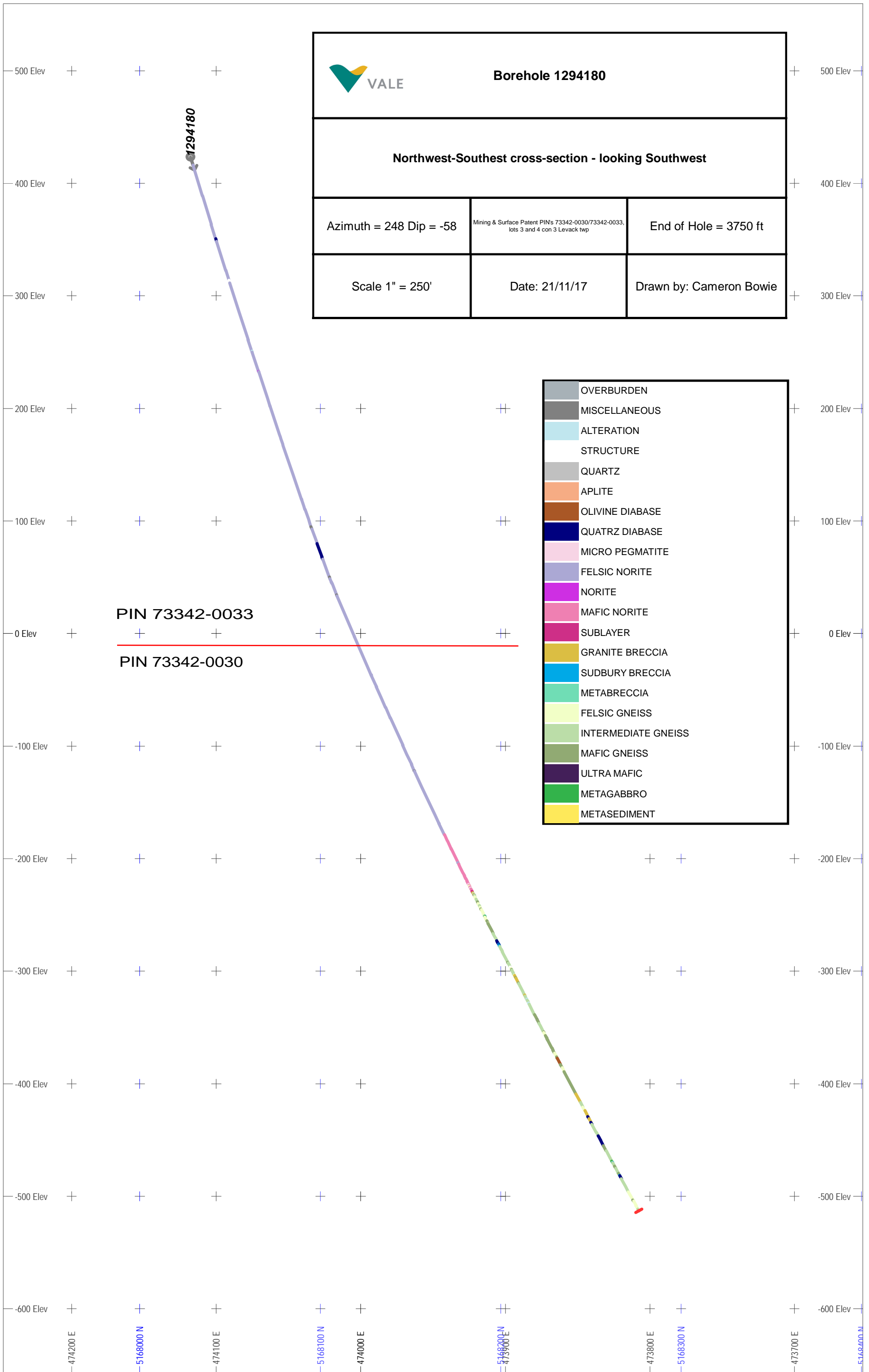
Date: 21/11/17

Drawn by: Cameron Bowie

1294180

PIN 73342-0033

PIN 73342-0030



474200 E 5168000 N 474100 E 5168100 N 474000 E 5168200 N 473800 E 5168300 N 473700 E 5168400 N



Borehole 1294190

Northwest-Southeast cross-section - looking Southwest

Azimuth = 250 Dip = -51

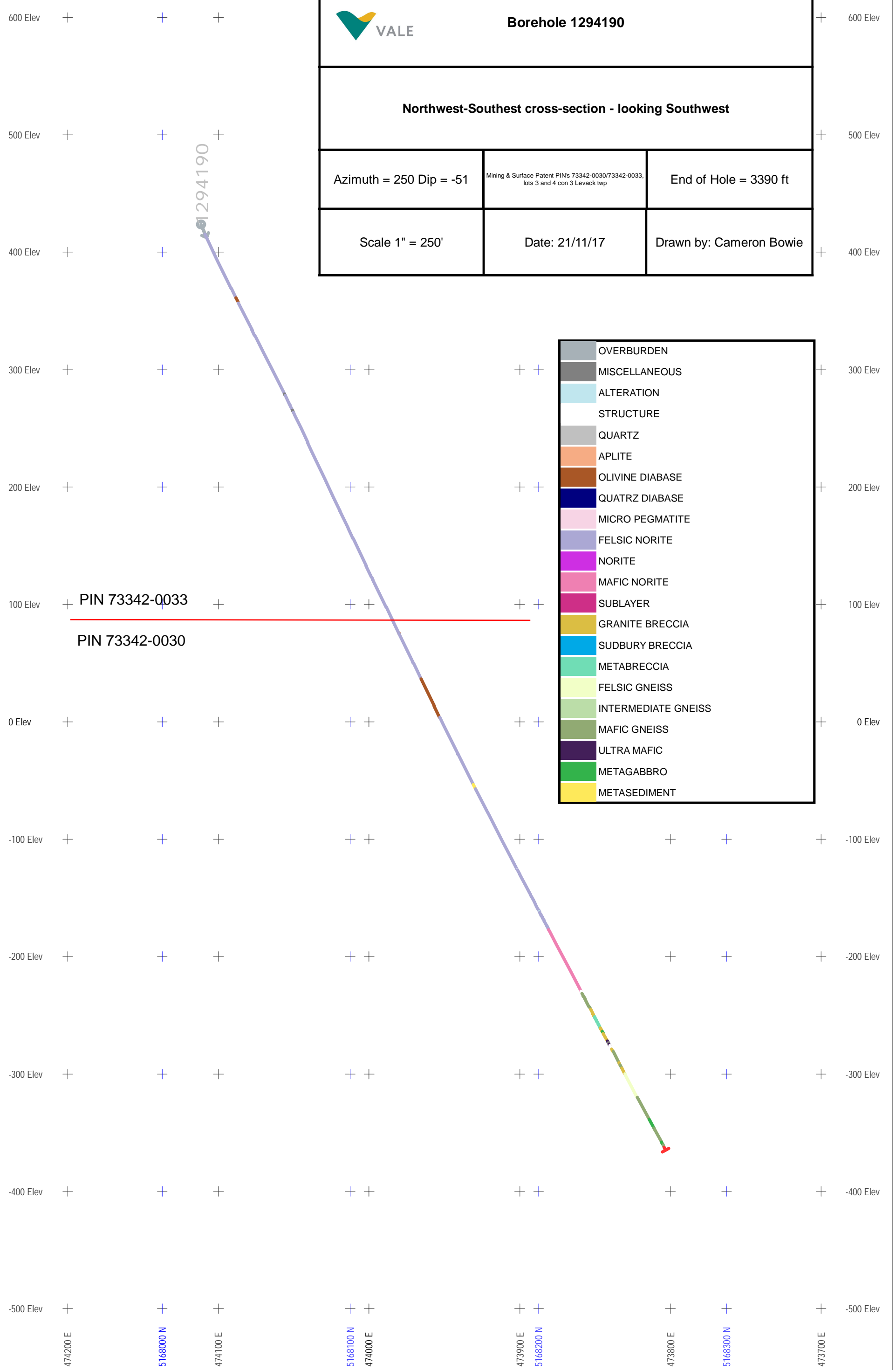
Mining & Surface Patent PINs 73342-0030/73342-0033, lots 3 and 4 con 3 Levack twp

End of Hole = 3390 ft

Scale 1" = 250'

Date: 21/11/17

Drawn by: Cameron Bowie



- OVERBURDEN
- MISCELLANEOUS
- ALTERATION
- STRUCTURE
- QUARTZ
- APLITE
- OLIVINE DIABASE
- QUATRZ DIABASE
- MICRO PEGMATITE
- FELSIC NORITE
- NORITE
- MAFIC NORITE
- SUBLAYER
- GRANITE BRECCIA
- SUDBURY BRECCIA
- METABRECCIA
- FELSIC GNEISS
- INTERMEDIATE GNEISS
- MAFIC GNEISS
- ULTRA MAFIC
- METAGABBRO
- METASEDIMENT



Borehole 1294650

Northwest-Southeast cross-section - looking Southwest

Azimuth = 276 Dip = -56

Mining & Surface Patent PINs 73342-0030/73342-0033, lots 3 and 4 con 3 Levack twp

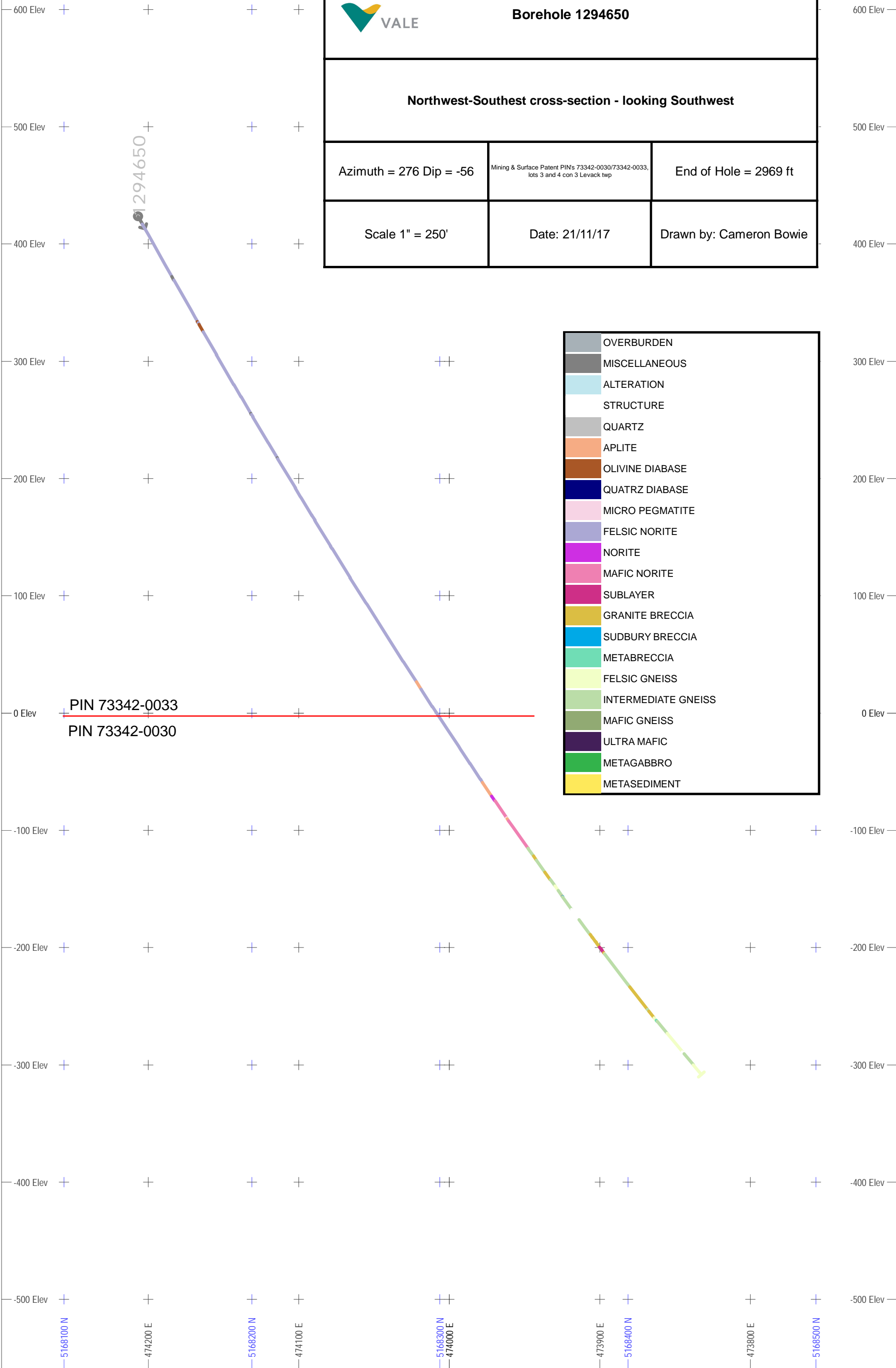
End of Hole = 2969 ft

Scale 1" = 250'

Date: 21/11/17

Drawn by: Cameron Bowie

1294650



- OVERBURDEN
- MISCELLANEOUS
- ALTERATION
- STRUCTURE
- QUARTZ
- APLITE
- OLIVINE DIABASE
- QUATRZ DIABASE
- MICRO PEGMATITE
- FELSIC NORITE
- NORITE
- MAFIC NORITE
- SUBLAYER
- GRANITE BRECCIA
- SUDBURY BRECCIA
- METABRECCIA
- FELSIC GNEISS
- INTERMEDIATE GNEISS
- MAFIC GNEISS
- ULTRA MAFIC
- METAGABBRO
- METASEDIMENT

PIN 73342-0033
PIN 73342-0030

5168100 N 474200 E 5168200 N 474100 E 5168300 N 474000 E 473900 E 5168400 N 473800 E 5168500 N

Appendix IV– Expenditure summary

Expenditure Summary

Service	Contractor	Details	Date From	Date To	Amount
Drilling	Major Drilling	BH1294180 mobilization	5/1/2015	5/15/2015	\$ 5,220.60
Drilling	Major Drilling	BH1294180 footage charges (0-1384 ft)	5/16/2015	5/31/2015	\$ 40,676.20
Drilling	Major Drilling	BH1294180 footage charges (1384-3117 ft)	6/1/2015	6/15/2015	\$ 83,717.29
Drilling	Major Drilling	BH1294180 footage charges (3117-3750 ft)	6/15/2015	6/19/2015	\$ 25,092.11
Drilling	Major Drilling	BH1294190 footage charges (0-1513 ft)	6/21/2015	6/30/2015	\$ 43,792.73
Drilling	Major Drilling	BH1294190 footage charges (1513-3225 ft)	7/1/2015	7/15/2015	\$ 61,607.29
Drilling	Major Drilling	BH1294190 footage charges (3225-3389 ft)	8/1/2015	8/2/2015	\$ 50,886.88
Drilling	Major Drilling	BH1294190 footage charges (3225-3390 ft)	7/16/2015	7/31/2015	\$ 15,710.03
Drilling	Major Drilling	BH1294650 mobilization and footage charges (0-108 ft)	5/6/2016	5/15/2016	\$ 15,908.59
Drilling	Major Drilling	BH1294650 footage charges (108 - 2116 ft)	5/16/2016	5/31/2016	\$ 79,443.76
Drilling	Major Drilling	BH1294650 footage charges (2116 - 2969 ft)	6/1/2016	6/14/2016	\$ 33,812.46
TOTAL					\$ 455,867.94