

number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-20		0	5.9	OVB													
EC16-20		5.9	45.72	QAS	Pale to medium green; QAS with blue and white quartz eyes; locally bleached. Patchy hematite staining. Several faults occurring throughout this interval as well as quartz veins												
EC16-20		45.72	46.94	SCH-f	Possible small interval of SCH-f - lack of quartz eyes and distinct medium green colour.												
EC16-20		46.94	50.43	SCH-i	Medium grey with strong SCH-yel overprint on fracture surfaces - moderate. Moderate hematite staining.												
EC16-20		50.43	54.4	QAS	Light to medium grey with purple / red hematite staining. Strongly broken up and faulted. Large white augen and circular quartz eyes.												
EC16-20		54.4	55.6	SCH-f	Medium green porphyroblastic / quartz eyes white in colour disseminated throughout the unit. Well faulted.												
EC16-20		55.6	70.6	SCH-i	Medium to light grey green; banded look to core with light and dark grey bands. Local patchy hematite staining. Very broken up. Two zones of cave.												
EC16-20		70.6	78.33	QAS	Light to medium grey green; strong local hematite staining to locally pervasive. Large white augen and circular shaped quartz eyes. Well faulted throughout interval. E.O.H. - NOTE - this hole was very broken up and hard to determine units due to this.												
EC16-21		4.5	5.49	OVB	Overburden and cave. Rubbled and re-drilled core. Cave + overburden. Mixed lithologies of primarily quartz rich (sericite) - quartz SCH + minor white milky QV rubble.												
EC16-21		5.49	6	SCH-f	Banded texture (SCH-lam?). Quartz - sericite (+/- chlorite) SCH and CAVE. Alternating off white to light grey bands up to 1 cm wide; with moderate to dark grey fine foliae. The light bands are composed of granular fine grain quartz; darker fine foliae are composed of 80% sericite + 20% chlorite fine to medium grain flakes. Uniform planar foliation.												
EC16-21		6	10.47	SCH-f	Quartz porphyroblastic Quartz - sericite (+/- chlorite) SCH and CAVE. Moderate rust-grey brown, quartz - porphyroblastic, wavy foliated (chlorite) sericite - quartz SCH. Moderate augen texture. Quartz porphyroblasts average 2.5 x 7 mm, elongated along foliation.					oxidized.							
EC16-21		10.47	16.06	SCH-i	Broken Sericite - chlorite - quartz SCH and CAVE. Alternating light grey and grey to grey brown, locally banded and mottled or streaky texture, fine grain chlorite - sericite - quartz SCH. About 20% cave; most of core is broken. Slight more oxidation on hanging wall of interval. 2 small QV in interval. Disseminated pyrite - limonite, trace - 1%. Local small 1 mm pits along bands. (10.47 - 12.45 m) Slightly oxidized and banded with 1% disseminated euhedral pyrite. (12.45 - 12.54 m) QV - broken pieces. (12.54 - 16.06 m) Broken core + cave material. Predominantly banded quartz rich chlorite - sericite quartz SCH 1 piece (3 cm) of milky white quartz @ 15.08 m. Trace disseminated pyrite - limonite throughout interval.					oxidized							
EC16-21		16.06	19	QAS	Originally logged as SCH-f; Broken oxidized Sericite (+/- chlorite) quartz SCH and cave. Light rust brown - grey, weakly banded with weak quartz porphyroblastic texture (chlorite) - sericite quartz SCH. Quartz porphyroblasts locally bluish - grey. Core is broken and moderately oxidized FeOx on fracture surfaces. Trace disseminated euhedral/ anhedral pyrite - limonite.					oxidized	EPy		0.1	APy	0.1		
EC16-21		19	20.5	SCH-i	Originally logged as SCH-m; (ankerite) chlorite - sericite - SCH. Moderate streaky grey with trace - 1% pits. 3% whitish ankhoritic spots in a sericite - chlorite SCH with irregular patchy stains of limonite (7%). Moderately foliated.	carb		Wk		oxidized.							
EC16-21		20.5	25.34	Other	Muscovite - chlorite - graphitic SCH. Light shiny beige to goldy beige, flaky, (muscovite) sericite, greasy, decomposed with 5 - 50% graphite black graphite. Local pits up to 3% Foliiform quartz sweat uncommn. Core broken. 2 small QV's within interval. (21.34 - 21.42 m) QV.												2
EC16-21		25.34	29.28	SCH-i	Chlorite - sericite +/- quartz(+/- feldspar) SCH. Weak reddish grey, fine grain locally beige, quartz - feldspar - sericite - chlorite SCH. Weak to moderate hematite stain. Foliation streaky average 60 degrees tca. Local oxidation rust and weak (1%) small (1 mm) vugs adjacent beige muscovite - chlorite rich beige sub-intervals are more decomposed as broken flaky chips.					oxidized.							
EC16-21		29.28	29.42	QV	Off white to creamy white quartz vein with dark rusty brown irregular and acicular vugs (10%) containing limonite and kaolinite (broken down feldspar) MnOx along fracture surfaces. Maybe a large qtz sweat + a cross cutting (??) quartz vein 13 cm wide.												
EC16-21		29.42	36.4	SCH-i	(29.42 - 31.24 m) Chlorite - sericite - quartz - feldspar SCH. Light grey, fine grained, off white quartz sweat bands (25%), chlorite - sericite - quartz - feldspar SCH. Plan foliation typically 70 degrees tca. Core broen ad has 1 broken QV in center part of interval. (30.17 - 30.56 m) QV. (31.24 - 36.40 m) FAULT ZONE with quartz veins. Intermittent pale tan - grey clay gouge +/- schist rock chips and crush; off white quartz veins; chlorite - rich SCH rock chips and broken core with cave. Interval is complex. Subintervals and QV's: (31.39 - 31.54 m) QV. (32 - 32.50 m) Pale light tan beige clay gouge (very weak rust). (33.0 - 33.3 m) Rare competent core; chlorite SCH with 40% foliaform. (33.3 - 34 m) Light beige clay gouge. (34.22 - 34.33 m) QV (34.85 - 35.05 m) QV (35.05 - 35.75 m) Broken and cleared rusty chlorite SCH with 15 - 20% foliaform quartz sweat with local euhedral pyrite (1%). (35.75 - 36.40 m) QV Any core described that lie between the above sub-intervals comprise varing of clay gouge +/- fine quartz crush +/- broken core (chlorite SCH).					oxidized.							
EC16-21		36.4	38.46	SCH-i	Chlorite (+/- sericite) quartz SCHIST. Striped and thin alternating bands of off white fine grained granular quartz, with dark mica rich (chlorite +/- sericite) stripes or bands. Locally decomposed with beige clay (5%); locally weakly oxidized up to 1% disseminated euhedral pyrite in matrix. Average planar foliation at 55 degrees tca.					Oxidized and clay	EPy		1				
EC16-21		38.46	38.71	SCH-i	Previously logged as SCH-m. Porphyroblastic Chlorite - quartz SCHIST. Moderate reddish grey hematite stained chlorite fine grained matrix with 5% quartz grains porphyroblasts averaging 1.5 mm. Planar foliation averages 60 degrees tca.												
EC16-21		38.71	45.42	SCH-i	(38.71 - 42.95 m) Chlorite (+/- sericite) quartz SCHIST. Undulating to banded chlorite (+/- sericite) quartz SCH - greyish with local rust along cleavage planes and fractures. Locally decomposed Foliaform quartz sweat 5 - 10% of interval. Trace anhedral pyrite - limonite as disseminations. (42.95 - 45.42 m) FAULT and DECOMPOSED SCHIST. Oxidized interval of light to moderate rusty - orange brown gouge of the hanging wall side of the interval (42.95 - 43.04 m) ad moderate rust brown broken muscovite - sericite - quartz SCH fragments +/- sandy clay gouge.												
EC16-21		45.42	46.5	QV	Complex foliaform qtz vein system. 60% white to light grey quartz; 40% deformed chlorite - quartz SCH. Upper contact obscured. Comprises ~ 5 quartz veins. The hanging wall QV is milky white with few fractures and doesn't contain much wall rock inclusions as the lower quartz. Most of the quartz appears foliaform.												
EC16-21		46.5	50.16	SCH-m	(46.50 - 48.05 m) Chlorite - sericite SCH. Dark greenish grey chlorite - sericite SCH with a streaky texture with oblique fine fracture to foliation planes. Low quartz content. Average foliation ~ 40 degrees tca; fractures typically 35 - 45 degrees tca. Bottom half of interval weak to locally moderate carbonate alteration. 3 - 5% tiny black specs. (48.05 - 48.46 m) FLT - Light pale rusty beige rock crush and sandy gouge. Lithology of rock fragments are muscovite - sericite SCH and chlorite - sericite SCH (70%). (48.46 - 50.16 m) Chlorite - sericite SCH with weak porphyroblastic texture. Dark greenish grey chlorite - sericite SCH with streaky texture and oblique fine fractures oblique to foliation as in interval (46.50 - 48.05 m). Weak intermittent quartz porphyroblastic texture developing 3 - 5% tiny black specs.	carb		Wk									
EC16-21		50.16	56.75	QAS	Logged as SCH-i; blue grey quartz eye porphyroblastic texture. Local weak hematite stain. A well developed quartz eye (blue - grey) porphyroblastic .												
EC16-21		56.75	63.25	SCH-i	(56.75 - 60.86 m) FAULT ZONE - Greenish grey broken and locally decomposed core (60%) locally very rusty; + intermittent light pale, beige, locally greasy, clay (talc? sericite) rich gouge (40%). Lithologies are all SCH but mixed - mostly intermediate to mafic composition. 1 foliaform (?) QV - broken 6 cm piece at 60.17 m. (60.86 - 63.26 m) Feldspar - quartz - chlorite - sericite SCH with banded and streak texture. Broken core: 30% dark grey to dark grey rusty brown streaks and bands of chlorite - sericite + 70%. Light greyish streaks and bands of feldspar - quartz - fine grained to sucrosic SCH. Local rust stain on fracture surfaces. Unusual rusty band near end of hole contains 25% euhedral pyrite in matrix (quartz - sericite - chlorite) with limonite. 4 cm wide. E.O.H.					Oxidized.							
EC16-22		0	7.62	OVB	Overburden - mixed rubble lithology; 5-10% milky white QV rubble - some QV material has euhedral pyrite and is stained in limonite along fractures.	lim		Wk			EPy		0.1				
EC16-22		7.62	8.5	SCH-i	Broken and sheared core. Grey to greenish grey SHC-i with brown gouge and fine rock crush. Fine grained with with local pitting.	oxi		Wk									
EC16-22		8.5	45.72	QAS	Intense faulting and prevalent gouge. Rusty orange brown, locally bleached white. Strong oxidation from 8-15 m. Well developed blue-grey (sucrosic) qtz eye porphyroblastic texture, 1-6 mm. Euhedral and anhedral pyrite. Local bleaching and silica flooded. Pitted parallel to foliation 10-20%. Local MnO along fracture surfaces. Hematite staining from 16.5 - 20.73 m. Possible local bleached SCH-i at 31.70, but intensely faulted with a high amount of gouge.	oxi	Str	sil	Wk	Intense oxidation and weak silica flooded throughout interval.	EPy		0.4			up to 2% local euhedral pyrite. Mostly trace amounts of pyrite.	
EC16-22		45.72	52.4	SCH-i	Broken and sheared core with abundant gouge. Possible SHC-i with parallel, uniform, and laminated foliation. Local hematite staining with light sea green bands.	hem		Mod		Local moderate hematite staining.							
EC16-22		52.4	54.86	QAS	Intense faulting and prevalent gouge. Rusty orange brown, locally bleached white. Well developed blue-grey (sucrosic) qtz eye porphyroblastic texture, 1-5 mm. Euhedral and anhedral pyrite. Pitted parallel to foliation 10-20%. Local MnO along fracture surfaces. Local moderate hematite staining.	hem		Mod		Local moderate hematite staining.							
EC16-23		3.6	4.15	OVB	10 feet of casing; SCH-m in composition												
EC16-23		4.15	6	SCH-m													
EC16-23		6	33	SCH-i	*SCH-f listed as the second lith - more laminated than classic FW felsic; low angles tca; from 19-20 m contains blue qtz eyes and chlorite spotting stretched along foliation; foliation low angle tca; gradational lower contact into more chlorite-rich unit below; more abundant qtz banding; euhedral py;												
EC16-23		33	50.4	SCH-m	foliation parallel tca at 35.5m; gradational lower contact												
EC16-23		50.4	86.3	SCH-i	variable alteration; abundant qtz sweat at top of interval, some oxidized; patchy moderate oxidation throuhout; becomes porphyroblastic at 67m to end of interval; moderate to strong pervasive carb alteration;												
EC16-23		86.3	100.58	SCH-m	segregated mafic and felsic minerals; oxidized proximal to qtz veins and faults; <0.5% py; strong pervasive carb alteration												

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					chlorite schist. Foliation very finely spaced. Foliation parallel / concentrated quartz veinlets with irregular boundaries. (8.33 - 9.50 m) Quartz - muscovite - chlorite schist with concentration of quartz veinlets. (9.50 - 10.67 m) Rubbly interval, pale tan Quartz - muscovite schist. FeOx + pyrolusite on fracture + within matrix. 9.7 - 10 m gouge. (10.67 - 14.77 m) Pale green - tan Muscovite - quartz schist with x-cutting fractures / oxidization (limonite + pyrolusite). (14.77 - 15.24 m) Gougy crushed interval of oxidized muscovite - quartz schist. (15.24 - 22.30 m) Grey green fine grained Muscovite - quartz schist. Closely spaced foliation. Crenulations. Dark pyrolusite + FeOx layers within fine foliation. Foliaform quartz as discontinuous lenses, dark grey with FeOx stain. Oxidized anhedral pyrite. 18 - 18.3 Foliation disrupted. 20.2 Fresh pyrite in anhedral oxidized mass. (22.30 - 29.40 m) Dark red - green Chlorite - muscovite - quartz Schist. Closely spaced foliation defined by dark brown - red + green oxidized and muscovite layers. Irregular ankeritic fractures. Quartz occurs as strongly flattered lenses and up to 5 cm sweats. Appears to be zone of slightly higher strain. (29.40 - 35.00 m) Dark green - grey Chlorite - muscovite - quartz Schist. Slight increase in chlorite compared to above. Quartz sweats / foliaform lenses have heavy irregular contacts with chlorite + muscovite selvages. 32 - 35 diffuse zone of oxidized foliation + Previous logged as SCH-f; Green - grey Chlorite - muscovite - quartz schist. Bluish quartz eyes - porphyroblastic? Spotty texture due to coarse grained quartz fragments in green matrix. 35.45 - 35.51 m: folded foliation + foliaform quartz veins.															
EC16-24	1.52	35	SCH-i		(39.7 - 40.44 m) Quartz - muscovite - chlorite schist. Dark green - grey, with deformed ~ 1 cm bands of felsic + mafic minerals, mix of chlorite < muscovite + fine grained quartz. Distinctly deformed + folded banding. Felsic bands boudinaged in darker bands. (40.44 - 49.55 m) Quartz - muscovite - chlorite schist. Green - grey patchily orange - oxidized, 5 - 10 mm banded + crenulated, chlorite < muscovite + quartz, quartz fine grained, muscovite + chlorite mixed + wispy / foliated. Quartz sweats parallel to foliation + folded. Bands coarsen down hole. (49.55 - 50.29 m) FLT - Orange - brown, oxidized + rubbly schist with clay gouge. (50.29 - 60.40 m) Quartz - muscovite - chlorite +/- pyrite SCH. Green / orangish green, banded, quartz - muscovite - chlorite in distinct bands + foliation, with quartz sweats + lenses. 52.5 - 60.4 - disseminated fine grained anhedral pyrite --> FeOx in folia bands cases orangish hue. Foliaform quartz sweats gradational to segregations in rock mass. (60.40 - 65.23 m) Quartz - muscovite - chlorite SCHIST. Dark green, banded well foliated (chlorite + muscovite), deformed (foliation + quartz boudins) Quartz - muscovite - chlorite with increased chlorite locally. Increased quartz lenses / sweats of above interval. Patchy oxidization (fine grained in matrix).	lim	Wk						Limonite - trace to weak to fair.							
EC16-24	35	39.7	QAS		Sweats up to 4 cm wide but discontinuous. Minor act near base ~ 65 m. Could possible be SCH-i (logged as SCH-m) - Quartz - chlorite - muscovite SCHIST +/- talc (?). Dark green + white banded and foliated, quartz sweats irregular and lensoid felsic bands > mafic, chlorite - muscovite - quartz but chlorite coarser flakes of to above. Locally serpentinite / talc along partings.	lim	Wk											10		
EC16-24	65.23	72.34	SCH-m		oxidized SCH-f rubble.															
EC16-25	0	4.57	OVB		moderately oxidized SCH-f, highly silicified, many foliaform qtz sweats, feldspar phenocrysts, well foliated.															
EC16-25	4.57	13.52	SCH-f		slightly oxidized x-cut QV with wall rock inclusions.															
EC16-25	13.52	13.73	QV		dark grey, oxidized foliaform qtz sweats with calcite at upper half of interval, up to 1% disseminated medium-coarse grained orange tarnished euhedral pyrite cubes.															
EC16-25	13.73	16.1	SCH-i		same as SCH-i unit above, with about 3% blue quartz eyes, and less pyrite.															
EC16-25	16.1	16.7	QAS		dark grey, appearance of epidote from 18m-19m, coarse grained orange tarnished pyrite locally up to 0.5%.															
EC16-25	16.7	21.8	SCH-i		pale dark green, about 5% blue quartz eyes, medium grained orange tarnished euhedral pyrite with anhedral infill up to 0.5% locally, moderate limonite stains on foliaform quartz.															
EC16-25	21.8	24	QAS																	
EC16-25	24	32.5	SCH-i		dark green at top of interval transitions to grey approaching end of interval. limonite stained foliaform quartz towards end of interval.															
EC16-25	32.5	39.7	SCH-i	SCH-tig	fault zone from 32.26m- 42.2m. wispy pulled apart chlorite in silicified SCH-i host. most of this zone has been sampled and cut already. faulted at beginning of interval. bleached, heavily silicified and oxidized. abundant foliaform quartz sweats. many vugs from oxidation. borderline SCH-i.															
EC16-25	39.7	46	SCH-f		faulted zone of rubble and gouge from 48.07m-48.77m. strong foliation becomes wavy and deformed. about 10% blue quartz eyes, exclusive of feldspar phenocrysts which are also abundant. old mafic dyke from 47.1m-47.15m. faulted at 54.2m-57m.															
EC16-25	46	57.2	QAS		grey-green. Z-fold from 59.2m-59.4m, coarse grained euhedral pyrite clustered up to 3% at 59.4m. local tec texture from 59.3m-60.15m. strongly foliated after 60.15m. calcite veinlets from 64.3m-64.4m with about 2% rusty cubes of pyrite carried by calcite. trace sericite. epidote appears from 65m-66m followed by patches of blobby carbonate. very strong lineations from 72.8m-73.15m. faulted rubble from 73.4m-74.65m. quartz porphyry from 75.8m-76.3m.															
EC16-25	57.2	76.4	SCH-i		cut and sampled. oxidized with wall rock inclusions.															
EC16-25	76.4	77.54	QV		dark grey-green. black banded chlorite, strong sericite alteration. coarse grained rusty cubes of pyrite increases in abundance towards end of interval.															
EC16-25	77.54	80.5	SCH-i		very heavy limonite and deformed fabric. about 2% coarse grained disseminated rusty cubes of pyrite throughout. crenulations and foliations strongly visible. lineations strongly visible. abundant muscovite. becomes apparently more mafic towards down hole. deformation get stronger. pale green from 100m- 109.5m, possible from epidote but not sure due to intense deformation. zone of bright burgundy squiggles near 102.3m-102.5m.															
EC16-25	80.5	104.48	SCH-m																	
EC16-25	104.48	104.78	QV		possible x-cut, unsure why this was not previously sampled. wall rock inclusions and deep microfractures with evidence of oxidation.															
EC16-25	104.78	117.65	SCH-m		pale green from top of interval to about 109.5m. local ptm texture from 110.9m -112.2m. tec texture from 112.2m-117.65m. very deformed interval. pyrite is so rusted that is just looks like red blobs.															
EC16-26	0	2.4	OVB		Rounded and re-drilled core of SCH-f															
EC16-26	2.4	6.95	SCH-f		Classic SCH-f; medium green; cross cutting vein branching off of a foliaform vein at 2.60 m running sub parallel tca. Local pitting with MnO coming in along the pits.															
EC16-26	6.95	34.2	SCH-i		Medium to light grey SCH-i; well foliated; patchy strong limonite staining; Patchy brown biotite alteration. Patchy pitting infilled with black MnO. Patchy weak faulting. Local porphyroblastic texture - white quartz eyes. 1 - 2 mm in size. 25.82 - 26.04 m and 26.96 - 26.98 m, Local epidote alteration. Well foliated.															
EC16-26	34.2	39.4	SCH-m	SCH-lam-nu	Medium to dark grey SCH-m with a SCH-lam non-unit texture. Well foliated / laminated. Local epidote alteration. Local porphyroblastic texture - white quartz eyes from 35.85 - 37.63 m. Quartz eyes range in size from 2 - 3 mm.															
EC16-26	39.4	41.95	SCH-m		Medium to dark grey with patchy green; in this interval we have a loss of the laminated / banded texture. Locally well crenulated. Patchy carbonate alteration. Weakly pytgmatically folded quartz lenses. Patchy epidote alteration in the quartz sweats.															
EC16-26	41.95	63	SCH-i	SCH-yel	Light grey to dark grey; Patchy SCH-yel overprint - weakly; well foliated throughout interval. Patchy pervasive limonite staining through most of the interval - making it difficult to see original texture and composition. Unit could be SCH-m.															
EC16-26	63	76.2	SCH-i	SCH-ptm	Light grey to white with medium to dark grey; SCH-i with strong pytgmatic texture with folded and twisted quartz lenses floating in a dark matrix. Patchy SCH-yel on fracture surfaces. Patchy local pervasive oxidization. Patchy carbonate alteration also occurring as cross cutting stringers.															
EC16-26	76.2	78.4	SCH-i		Medium to dark grey SCH-i - complete loss of pytgmatic texture. Well foliated. Patchy carbonate alteration.															
EC16-26	78.4	79.3	SCH-f		Possible SCH-i, not classic SCH-f. Light grey to white with dark green chlorite blebs. Similar in look to a SCH-tig but with way less chlorite.															
EC16-26	79.3	83.3	SCH-i		Medium grey to light grey SCH-i; sharp contact with SCH-f at lower contact; well foliated; locally grey - green.															
EC16-26	83.3	100.58	SCH-f		Medium to pale green; classic looking SCH-f; Locally porphyroblastic / white quartz eyes - disseminated and then a complete loss of the eyes.															
EC16-27	4.57	10.7	SCH-f		Range in size from 1 - 3 mm wide, circular to semicircular in shape. Small fault near end of interval.E.O.H.															
EC16-27	10.7	36.49	SCH-i		Qtz rich, fine grained, pale green. Irregular quartz sweats.															
EC16-27	36.49	38	SCH-f		(was logged as SCH-m previously), averaging 1% pyrite with local chlorite rich layers up to 3%. Locally porphyroblastic - 21.60 - 21.80 m, highly strained and broken quartz eyes and relic ghosty < 2 mm sized feldspar porphyroblasts.															
EC16-27	38	49.4	SCH-i		Quartz rich; generally grey green or tan. (lacks good chlorite and is not as plastically deformed - beds are more competent than above SCH-i unit); rare ghost feldspar porphyroblasts.															
EC16-27	49.4	49.57	QV																	
EC16-27	49.57	52.6	SCH-i		"Nugget vein?" (target of dill hole).															
EC16-27	52.6	52.72	QV		Part of QV zone (49.40-54.38 m).															
EC16-27	52.72	53.2	SCH-i																	
EC16-27	53.2	53.24	QV		Part of a x-cutting QV zone (49.40-54.38 m).															
EC16-27	53.24	53.6	SCH-i																	
EC16-27	53.6	53.74	QV		part of a cross cutting qtz vein zone (49.4-54.38m).															
EC16-27	53.74	53.9	SCH-i																	
EC16-27	53.9	53.94	QV		Part of cross cutting quartz vein zone (49.40-54.38 m).															
EC16-27	53.94	54.23	SCH-i																	
EC16-27	54.23	54.38	QV		Lowest cross cutting QV in a zone of QV's from 4940-54.38 m.															
EC16-27	54.38	67.81	SCH-m		Contorted foliation texture? fold hinge area?															
EC16-27	67.81	67.96	QV		White QV cross cutting foliation															
EC16-27	67.96	70	SCH-m		common foliation sub parallel tca. contorted fold hinge cut by drilling.															
EC16-27	70	70.17	QV																	
EC16-27	70.17	72.82	SCH-m		QV fragments in fault zone at (72.56-72.82 m).															
EC16-27	72.82	73.02	QV																	
EC16-27	73.02	100.58	SCH-m		Common 2% rusty pyrite cubes up to 3 mm throughout oxidized portion - down to 90 m.															
EC16-28	3.05	5.4	SCH-f		Quartz - muscovite - chlorite SCHIST fine grained. Pale green, fine grained Quartz - muscovite - chlorite schist with 15% foliaform quartz veins. Cut by thin stringer (Fe) carbonate + chlorite + pyrite associated with pyrite in wallrock.	lim	Wk					APy		0.1				15		

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-28	5.4	17.7	SCH-i		(5.40 - 12.59 m) Quartz chlorite SCHIST. Mottled dark green finely foliated quartz - chlorite schist, patchy ankerite alteration along stringers + in matrix. Ankerite + chlorite + quartz stringers throughout (<1%) with pyrite, chalcopyrite + spec, FeOx + Mn where oxidized. 7.72 - 7.82: Ankerite + pyrite + chalcopyrite stringers 1%. 10.27 - 11.25 m: Quartz sweats boudinaged with ankerite in matrix. Oxidized pyrite ~ 0.5%. 11.25 - 12.59 m: 2% pyrite anhedral in matrix. (12.59 - 13.96 m) Speckled quartz - feldspar - chlorite SCHIST with chlorite porphyroblasts speckled green grey quartz - feldspar - chlorite schist, felsic minerals form bulk of matrix with chlorite as ~25%. 1 m clots as well as stripes. Pyrite oxidized + cubic. (13.59 - 17.70 m) Quartz - chlorite - pyrite SCHIST; Green grey finely foliated and banded quartz - chlorite schist. Foliation and sweats folded on cm scale throughout. Pyrite 1.5% as aggregates of anhedral crystals + euhedral cubes. Scattered quartz veinlets without sulfides. Eg. at 16.5 m. 15.9 - 16.10: oxidized bleached interval. Quartz - muscovite - chlorite SCHIST, fine grained + banded. Pale green fine grained quartz - muscovite - chlorite schist, hard, chlorite in 1 - 10 mm bands. Cut by ankerite stringer. Pyrite as oxidized fine anhedral in foliation. Brown - orange stripes 5 m in sets. 18 - 18.65: 4% quartz - ankerite stringer stockwork with pyrolusitic selvages.	carb	Mod	lim	Wk	Carbonate - local. Limonite weak to trace.		EPy	0.5	APy		1	Apy - 1% locally.		10
EC16-28	17.7	19.57	SCH-f		Quartz - chlorite - muscovite - pyrite SCHIST. Buff - grey Quartz - chlorite - muscovite schist, crenulated ad deformed. Foliation subtle, higher proportion of felsic minerals. Pyrite disseminated as 1 mm cubes, oxidized. Patchy carbonate alteration associated with veinlets. Oxidized pyrite ~ 2%. Hanging wall or nugget vein.	carb	Wk	lim	Wk			EPy	0.1	APy		0.5		1	
EC16-28	19.57	21.81	SCH-i		Nugget vein; white with orange stain massive and fractured. Limonitic quartz vein. At least 2 phases with grey quartz fragments in whiter matrix. Pitted ~ 3% --> carbonate? cut by oxidized gouge fractures.	carb	Tr	lim	Mod			EPy	0.1				3		
EC16-28	21.81	22.16	QV																
EC16-28	22.16	34.55	SCH-i		(22.16 - 23.90 m) Quartz - chlorite - pyrite SCHIST, cut by veins. Quartz vein zone. Dark green - tan foliated and folded quartz - chlorite schist (~50%) cut by folded foliaform quartz veins + two that likely cross cut. Oxidized pyrite 2% in matrix. (23.90 - 27.21 m) Quartz - chlorite SCHIST, deformed. Dark green - grey deformed quartz - chlorite schist, foliation folded by 50 cm ampl. folds marked by quartz in FA. 25.26 - 25.77 m: Oxidized bleached interval with 8 cm dish shaped ankerite + pyrolusite? blob. 26.13 - 27.05 m: Two folds marker by QV. 0.5% oxidized pyrite cubes in matrix. (27.21 - 31.67 m) Orange + green patchily oxidized fol'd quartz - chlorite schist. 31.0 - 31.67 m: folded foliation + bands. 29.36 - 30.13: 1% carbonate stringer open stockwork. (31.67 - 34.55 m) Quartz - chlorite - carbonate SCHIST, spotted. Dark grey - green banded ~ 5 mm scale weakly deformed quartz - chlorite - carbonate schist. Spotted with 10 - 25% grey 5 mm carbonate within foliation. Limy horizon. (34.55 - 36.40 m) Quartz - feldspar - chlorite + pyrite schist, crenulated. (36.40 - 64.54 m) Buff tan green crenulated + completely banded quartz - feldspar - chlorite - pyrite schist. Pyrite occurs as remnant bits of oxidized cubes. ~ 2 x 2 mm partially overgrowing foliation fabric. FeOx pyrite 3 - 5%. 38.28 - 38.44 m: limonitic fractured quartz clasts + boudins in chlorite breccia matrix. Quartz sweats flattened lensoidal + boudinaged. 50.5 - 52.5: folded interval, foliation deformed on cm scale + with 15 cm folded sweat defining meter - scale F.A. 58 - 58.6 m: Deformed quartz - carbonate - chlorite mottled veinlets as 55.60 - 55.69 contacts "middle generation". (64.54 - 70.84 m) Quartz - chlorite - carbonate SCHIST. Dark grey - green deformed + boudinaged quartz - feldspar - chlorite - carbonate schist. Limy horizon. Folded and boudinaged quartz - feldspar - carbonate sweats as aggregates of anhedral crystals usually along sweat margins. Phlogopite 1 - 3% in phyll matrix. Pyrite locally cubic. (70.84 - 72.22 m) Quartz - chlorite +/- carbonate SCHIST, phacoidal. Dark grey - green phacoidal quartz - feldspar - chlorite schist, pyrite as cubic aggregates. Carbonate in matrix but patchier than above. Patchily oxidized. 71.55 - 71.60 m: Oxidized clay gouge. 71.94 - 72.22 m: Deformed interval with folded foliation + quartz - carbonate sweats.	carb	Str	lim	Wk	Carbonate locally strong; Limonite moderate locally.		EPy	0.1	APy		0.1	Apy locally 0.5%.		10
EC16-28	34.55	72.22	SCH-m		Quartz - chlorite - muscovite SCHIST, spotted. Green carbonate - spotted quartz - chlorite - muscovite schist. Quartz - carbonate sweats boudinaged + folded, stained orange with white calcite. Cut by < 1% fine calcite stringers.	carb	Mod	lim	Wk	Carbonate - weak to moderate. Limonite weak to moderate.		EPy	0.1	APy		0.1	Epy trace up to 0.5%. Apy trace to 0.25%.	5	
EC16-28	72.22	73.46	SCH-i			carb	Mod					EPy	1				10		
EC16-28	73.46	76.2	QAS		Quartz - muscovite - chlorite SCHIST, quartz porphyroblastic. Buff grey fine grained quartz - muscovite - chlorite schist. Cut by irregular ankerite stringers, trace oxidized pyrite specks throughout 0.5%. Hard. 75.88-76.20 m ~ 1% blue grey quartz eyes , 1 mm round within foliation. 75.68 - 76.0 m: Fine carbonate stringers stockwork, 1% veinlet to wall rock. Appears almost glassy@ 75.48 m - silicified? E.O.H. layered at 3 - 5 m scale (quartz - feldspar - muscovite vs chlorite). Pyrite cubes (oxidized) 1% in felsic bands cut by foliaform quartz sweats. (6.82 - 14.88 m) Quartz - feldspar - carbonate - chlorite SCHIST. Dark green - grey foliated + banded quartz - feldspar - chlorite - muscovite schist. Carbonate lenses within foliation throughout 10%. With quartz > carbonate sweats. Pyrite as scattered oxidized anhedral blebs. Cut by carbonate stringers 1%. Fine feldspar porphyroclasts locally 3 - 5% cx? at 13.1 m. Foliation locally crenulated. (14.88 - 15.64 m) Quartz - carbonate - chlorite schist (limy horizon). Dark grey - green finely banded quartz - carbonate - chlorite schist. Carbonate in matrix of felsic bands + as 2 mm ragged clots. Pyrite oxidized aggregates of anhedral crystals. 15.0 - 15.64 m: bands of 15% 3 mm pits within foliation, dark brown gritty material. (15.64 - 24.08 m) Quartz - feldspar - chlorite SCHIST, phacoidal. Patchy orange - green phacoidal + deformed quartz - feldspar - chlorite schist. Felsic lenses have 1 - 2 cm thick bands of pits (carbonate dissolved?). Pyrite cubes throughout ~1% locally higher, oxidized. 20.34 - 21.5 m: Deformed interval in schist with lensoidal quartz sweat boudins 5 cm long. Chlorite slips cut across quartz - feldspar clasts. Fine felsic fragments in chloritic matrix. (24.08 - 30.0 m) Pyritic quartz - feldspar - chlorite schist, crenulated. Patchy orange - green oxidized crenulated Quartz - feldspar - chlorite SCHIST, crenulated. As above with less pyrite, now fine grained and ~1%. Quartz - carbonate sweats more abundant than above. 32.78 - 32.95 m: qtz sweat/ foliaform vein with brown - tan Fe-carbonate + grey calcite cm - scale angular fragments. Altered wall rock? 36.13 - 39.28 m: Deformed interval with foliation parallel tca including quartz foliaform vein. 36.99 - 37.9 m: With square (pyrite?) pits. Becoming more chloritic + appears more phacoidal downhole.	carb	Wk			Carbonate - weak to moderate.						2			
EC16-29	3.05	30	SCH-m		Cross cutting quartz vein; Orange and grey quartz vein, crackled with limonite and carbonate fractures. Cuts foliation uphole + ankeritic veinlet cut quartz sweat downhole. Pyrite isolated euhedral in selvage + oxidized. (49.30 - 49.9 m) Oxidized pyritic quartz - feldspar - chlorite SCHIST. Quartz - feldspar - chlorite schist, orange green, oxidized with 2% pyrite cube-shaped pits. Alteration zone around QV at 49.3? ~ 1 m uphole as well. (49.9 - 52.0 m) Quartz - feldspar - chlorite SCHIST, phacoidal + deformed. Dark grey - green phacoidal, deformed quartz - feldspar - chlorite schist. Quartz - feldspar bands folded + boudinaged, lenoidal. Matrix is dark grey chlorite + quartz / feldspar. 2% carbonate lenses within felsic sweats. Patchy oxidation. (52.0 - 52.10 m) FAULT GOUGE - Light tan sticky clay gouge --> fault. Sharp contact uphole. (52.1 - 54.86 m) Quartz - feldspar - chlorite SCHIST, crenulated. At 49.9 - 52.0 m. Intact crenulations with less ductile deformation textures. (54.86 - 61.4 m) Quartz - feldspar - chlorite SCHIST, ribboned. Green + patchy orange quartz - feldspar - chlorite schist, foliation sub parallel tca giving ribboned appearance (chlorite). Quartz sweats (boudinaged) more abundant than uphole. Pyrite in matrix + as oxidized cubes along irregular fractures. Pits (~1%) in quartz sweats from dissolved carbonate. @ 55.3 m: 1 x 1 cm pyrite cubes, oxidized in aggregate, possible along vein or fracture lost during drilling (both sides of a spun off drilling. (61.4 - 61.65 m) As above with stronger oxidation near contact with dyke. 2% thin stringer stockwork of ankerite? Pale tan greenish, fizzes reluctantly.	carb	Mod	lim	Wk	Carbonate - moderate to strong. Limontie - weak to moderate.		EPy	1	APy		0.1	Epy - 1% up to 3% locally. Apy 0.1 up to 1% locally.		
EC16-29		30	49.22	SCH-m		lim	Wk					EPy	1				7		
EC16-29	49.22	49.3	QV		*** Was previously logged as LAMP dyke; Grey green unfoliated, fine matrix with 30% rounded, 1-2 mm dark grey phenocrysts, appear to be pits but are more a soft grey-green mineral, likely chlorite after hornblende? Upper and lower contacts oxidized with 5 mm of FeOx gouge at 20 degrees tca.	carb	Wk	lim	Wk	Carbonate - weak to moderate; Limonite - weak to moderate		EPy	0.1						
EC16-29	49.3	61.65	SCH-m		Schist interstitial to dyke. Quartz - feldspar - chlorite schist foliated at low (~10 degrees) tca. Upper 10 cm oxidized. 3% jagged patches of Fe carbonate in matrix.	lim	Wk			Limonite - weak to moderate.		APy	0.1						
EC16-29	61.65	62.75	BAS		**** Was previously logged as a LAMP but feldspar phenocrysts observed (by SF and IP). As above - except for more strongly oxidized especially upper 25 cm with tortoise shell??? pattern of ox around stockwork (3%) limonite + clay fracture fill.	lim	Mod					APy	0.1						
EC16-29	64.73	70.76	SCH-m		(64.73 - 68.8 m) Dark green boudinaged + folded chlorite - quartz - feldspar schist. Foliation < 10 degrees tca gives chlorite layers long ribbon shape. Cut by discontinuous carbonate stringers. 1% stringers cut foliaform quartz but are broken + folded with foliation. Pyrite oxidized. (68.8 - 69.0 m) FLT - rubble + gouge with foliaform quartz vein fragments. (69.0 - 70.76m) As 64.73 - 68.8 m.						EPy	0.1	APy		0.5		7		
EC16-29	70.76	71.45	BAS		*** Was previously logged as a LAMP (but SF and IP observed feldspar phenocrysts) Grey-green, non-foliated.														
EC16-29	71.45	74.68	SCH-m		Dark grey Quartz - feldspar - chlorite schist, un-oxidized equivalent of above. Foliation back to ~ 30 degrees tca, pyrite fresh in tabs. Felsic bands + sweats weakly folded + boudined. 73.5 - 74.3 m: ankeritic matrix (weak) related to clay. Fracture fill at 74.07 m. E.O.H. weathered, 1% carbonate in matrix (< 1 mm spots) and in folded foliaform veins. Pyrite anhedral + oxidized 0.5%, within foliation. Layers of pits ~ 3 mm filled with earthy brown mineral --> residue after carbonate. QV rubble below casing --> float, re-drilled. Lower contact marked by phacoidal texture. (10.50 - 11.55 m) Quartz - feldspar - chlorite SCHIST, phacoidal. Striped dark - green - grey layered quartz - feldspar - chlorite schist. Feldspar - quartz layers form phacoidal texture (lenses with interstitial chlorite layers). Lenses. Folded --> crenulated. Pyrite as fine oxidized clots, anhedral within felsic + chlorite bands (sheared out / ribbony in chlorite), 1%. (11.55 - 13.5 m) Deformed Quartz - feldspar - chlorite SCHIST. As above but with more deformed texture - quartz - feldspar lenses folded with crenulation cleavage banding. (13.5 - 18.74 m) Quartz - feldspar - chlorite SCHIST. Dark green + patchy orange quartz - feldspar - chlorite schist, felsic lenses + bands ~ 3 mm thick with interstitial chlorite. Pyrite 1 - 2 mm euhedral, oxidized throughout, 2% within foliation. Quartz sweats dark grey with brown pits --> carbonate weathering. Feldspar locally clay altered - fine grained, 50% of felsic bands were affected. (18.74 - 20.5 m) Chlorite - quartz - feldspar SCHIST, banded. Dark green + patchy orange chlorite - quartz - feldspar schist, felsic + chloritic bands now 5 - 10 mm thick. Lenses flattened giving	carb	Wk	lim	Wk	Carbonate - weak to moderate;		EPy	0.5			Epy - 0.5% up to 2% locally. Apy - 0.5% up to 1% locally.		5	
EC16-30	3.05	20.05	SCH-m		(20.5 - 23.9 m) Chlorite - quartz - feldspar SCHIST, deformed. Dark green chlorite - quartz - feldspar schist, deformed, as above to chlorite with brecciated + boudinaged quartz sweats + qFsp layers. qFsp layers folded at cm scale. Oxidized pyrite in matrix + sweats 0.5% euhedral. Foliation folded ranging from 15 - 50 degrees tca. (23.9 - 46.03 m) Quartz - feldspar - chlorite SCHIST. Pale green quartz - feldspar - chlorite schist, well defined felsic + mafic strips 2 - 4 m thick: quartz - feldspar segments, quartz sweats + chlorite > qfsp. 0.25 - 0.5% pyrite as euhedral oxidized cubes within matrix + in sweats. Quartz sweats, ex. at 29.6 m, with angular dark brown 5 mm wide carbonate crystals. Brown carbonate also as 30% 2 mm clots in some quartz sweats.	carb	Wk	lim	Wk	Carbonate - weak to moderate, Limonite - weak.		EPy	0.5					3	

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-30	46.03	53.13	SCH-i		Previously logged as SCH-f. (46.03 - 51.9 m) Quartz - feldspar - chlorite - muscovite SCHIST. Dark to pale green patchily oxidized, finely banded with 2 mm discontinuous quartz - feldspar + chloritic bands. Harder and more competent than above mafic. Pyrite fresh, euhedral 2 mm cubes + anhedral within foliation trace. Epidote along discontinuous fractures and quartz sweats. Quartz sweats with undulose boundaries. Local carbonate stringers with epidote selvages, trace. 48.45 - 49.27: oxidized layer with 2 cm layer of quartz rich schist (tan) with chlorite spots (1 mm, rounded, 2.5%). Gougy fault at 48.67 m. (51.9 - 53.13 m) Quartz - feldspar - chlorite SCHIST. Dark grey finely banded Quartz - feldspar - chlorite schist. Epidote as splotches and fine within the matrix 2%. Pyrite fresh, euhedral cubes 1 mm, 3%. Qfsp segments folded in chlorite rich bands locally. ~20% of matrix is dark grey - black translucent mineral slightly harder than chlorite.	carb	Wk	lim	Wk	Limonite - weak locally.		EPy		0.1	APy		0.1	Epy locally up to 3%.	3
EC16-30	53.13	54.25	SCH-f		Quartz - feldspar - muscovite - chlorite SCHIST. Pale green with penetrative but faintly visible. Foliation, quartz - muscovite - chlorite schist, quartz - feldspar > chlorite + muscovite, making core much smoother, harder + competent than mafic rock uphole. Pyrite trace + euhedral, locally fresh but more commonly oxidized. 53.65 - 53.85 m: 5% pale tan carboante clots stretched into foliaiton. Pitted + oxidized along 0.5 cm gougy fault. 54.15 - 54.25: 2 cm wide felsic bands with 0.5 cm discontinuous darker chlorite + pyrite interstitial. Cut by quartz pyrite stringers. Multi-phase and brecciating. Discontinuous in veins column. Fine quartz - pyrite interstitial to coarse grained quartz and breccia fragments, stytolitic pyrite selvage between quartz vein.	lim	Wk					EPy		0.1		7			
EC16-30	54.25	54.39	QV		Quartz - feldspar - muscovite - chlorite schist as 53.13 - 54.25 m.	lim	Wk					EPy		0.1		7			
EC16-30	54.39	55.12	SCH-f		Massive grey quartz vein, pitted down hole and with jagged uphole contact. Limonite within brown pits. Fine linear sets of pits along fractures form a branching pattern (~ 10 %).														
EC16-30	55.12	55.3	QV		angular to rounded white phenocrysts - (50% feldspars, 50% carbonate) --> pheno's and amysg? Bands of pits 4 cm wide - weathered carbonate. (60.0 - 63.5 m) Quartz - chlorite - muscovite SCHIST, layered. Pale green - grey foliated + layered (variably chloritic 5 - 10 mm) with 5 mm quartz sweats ~10%, closely folded + discontinuous. Pyrite train fresh + anhedral. Phenocrysts absent. Carbonate spots concentrated in 5 cm layers. 60.90-60.95 m: Hematite schist with 2% carbonate spots. (63.5 - 67.12 m) Felsic schist. Light green quartz - feldspar - chlorite - muscovite schist, layered with chloritic + qfsp bands. 15% quartz +/- carbonate sweats / foliaform veins pytmatically folded 5 - 10 mm wide. Foliaform quartz veins cut by massive white grey 1 cm veins, see description under veins. (67.12 - 67.75 m) Felsic schist, oxidized. Layered quartz - feldspar - chlorite - muscovite schist as above with pervasive oxidation related to fault with gouge at 67.4 m (38 degrees tca). (67.75 - 69.05 m) Felsic schist, Layered pale green quartz - feldspar - chlorite - muscovite schist as 63.5 - 67.12 m. Flattened 2 x 10 mm carbonate blebs in layers 5 cm thick; 10% within layers. Cut by massive quartz veins 10 - 15 cm wide. Pyrite oxidized. 68.1 - 68.6 m: 60% folded but appears x-cutting quartz carbonate vein dark grey, WRI between veins strongly chloritic locally with epidote. Fresh pyrite, anhedral - 0.5% SCH-f (possible interval of SCH- carb Hybrid quartz vein; quartz veins cutting schist, appear to cross cut foliation locally but also appear to be foliaform. WRI chloritized and with disseminated euhedral pyrite oxidized 1 mm.	carb	Wk	lim	Wk	Carbonate - weak to moderate. Limonite - trace to weak to moderate, locally.		EPy		0.1	APy		0.1	Apy locally.	10
EC16-30	69.05	69.45	QV		As 67.75 - 69.05 m, bands more subtle + thinner ~ (2 mm).							EPy		0.1		10			
EC16-30	69.45	70.43	SCH-f		White massive qtz vein, trace cubic, oxidized pyrite in quartz, 3% in selvages as oxidized masses of 1 mm cubes.														
EC16-30	70.43	70.56	QV		Quartz - feldspar - muscovite - chlorite SCHIST, veined. Pale green faintly foliated quartz - feldspar - muscovite - chlorite schist with 25% quartz vein due to vein running down core axis.Vein itself is 1 - 4 cm wide + may connect to those at 70.8 m + 71.3 m --> core is rubbly + contact not preserved.							EPy		0.1		10			
EC16-30	70.56	71.3	SCH-f									EPy		0.1					
EC16-30	71.3	71.63	QV		(Nugget vein?); white, massive, milky quartz vein, probably connected to 2-3 cm quartz veins running down core axis up hole and down hole. Quartz - muscovite - chlorite SCHIST, phenocrystic +/- amygdules. Green, faintly foliated + spotted with white ~ 2 x 1 mm feldspar phenocrysts + carbonate amygdoles (?), 5% within foliation, quartz - muscovite - chlorite schist. Amydoles stretched in foliation. Pyrite cubes 1 mm trace euhedral, oxidized rims with fresh cores. Cut by fine dark streaks?? adjacent to fractures + within foliation --> fine sulfide? Usually with 2% red oxide. 73.75 - 73.95 m: Brecciated interval with jigsaw texture angular non-rotated clasts of schist in fine grained quartz - sericite matrix. 74.4 - 74.5 m: Breccia in quartz sweat, angular quartz clast 2 - 5 mm in fine grained dark matrix with 3 - 5% fine grained oxide + minor carbonate. E.O.H.	carb	Wk					EPy		0.1					
EC16-30	71.63	77.72	SCH-f		equal 1 - 2 mm bands. Crenulated. Pyrite scattered increasing to 1% in hanging wall of vein. 4.57 - 4.9 - 50% brecciated and deformed grey quartz - carbonate foliaform. (5.94 - 6.01 m) QV (6.01 - 6.19 m) Tan, altered (carbonate + sericite) interstitial SCH-i. (6.19 - 6.24 m) QV (6.24 - 8.50 m) Dark green - grey quartz - feldspar - chlorite schist, strong crenulation fabric disrups 1 - 2 mm felsic/ phylo bands --> quartz - feldspar dotted with discontinuous chlorite spots. Pyrite trace euhedral oxidized. Trace 1 mm sub rounded smoky blue cordierite? porphyroblasts. (8.50 - 10.05 m) Deformed and altered Quartz - feldspar - chlorite SCHIST. Tan - light green folded + deformed quartz - feldspar - chlorite schist, foliation folded + quartz sweats boudinaged. Pyrite disseminated 1 - 2 mm cubes oxidized. (10.05 - 10.15 m) QV (10.15 - 10.23 m) As 8.5 - 10.05 m. (10.23 - 13.4 m) Green grey crenulated quartz - feldspar - chlorite SCHIST. Scattered pyrite. Felsic bands tightly crinkled ~ 1 - 2 mm wide, chlorite discontinuoos + interstitial. (13.4 - 13.72 m) Quartz - feldspar rich SCHIST. Grey faintly banded + folded quartz - feldspar > chlorite schist, increased proportion of quartz - feldspar gives massive appearance. Chlorite --> earthy tan alteration. (13.72 - 13.77 m) QV (13.77 - 15.34 m) Quartz - feldspar - chlorite SCHIST, crenulated + altered. Tan - green quartz - feldspar - chlorite schist, strongly developed crenulation as above,	carb	Wk	lim	Wk	Carbonate - weak to moderate. Sericite - weak to moderate, local.		EPy		0.5			Epy ranges from trace to 0.5%, 1%, 2%, 3% - locally.	5	
EC16-31	4.57	15.34	SCH-i		Possibly Nugget vein; white with grey, massive QV; wispy WRI - 5% altered to carbonate with race euhedral pyrite oxidized. Possibly fold axis.														
EC16-31	15.34	15.64	QV																
EC16-31	15.64	19.41	SCH-i		(15.64 - 16.10 m) FLT - Gougy, rubbly core. Deformed Qtz - fsp - chl (ser) schist with disseminated pyrite. (16.10 - 16.24 m) QV - in deformed schist matrix. (16.24 - 19.41 m) Quartz - feldspar - chlorite SCHIST, crenulated. Tan - green folded + crenulated quartz - feldspar - chlorite schist, patchy carbonate alteration, chlorite darker green in less altered interval (ex. at 18.6 m). Pyrite oxidized cubes, 1-2 mm local, fresh cores. Mottled off white brown-grey qtz vein, massive with limonite fractures parallel tca. Minor oxidized, euhedral pyrite.	carb	Wk	ser	Wk	Sericite - weak to moderate. Carboate - local.		EPy EPy		0.1 0.1		Epy up to 1% locally.	5		
EC16-31	19.41	19.76	QV		Quartz - feldspar - chlorite SCHIST, deformed. Tan - green quartz - feldspar - chlorite schist, banded + crenulated, crenulation less pronounced with more chloritic bands - locally phacoidal texture. Pyrite isolated oxidized 1 mm. 21.3 - 21.8: Folded interval, felsic bands boudinaged. 1 - 3 cm irregular quartz - carbonate vein folded.	carb	Mod					EPy EPy		0.1 1		5			
EC16-31	19.76	21.83	SCH-i		Light grey crackled QV with 4 cm long WRI --> carb + cubic pyrite (5%, oxidized) on uphole contact.	carb													
EC16-31	21.83	22.07	QV		drawn into foliation, 1% oxidized pyrite. (22.63 - 22.70 m) QV - possibly FA related as foliation is folded on contacts. (22.70 - 27.12 m) - Quartz - feldspar - chlorite SCHIST. Grey green Quartz - feldspar - chlorite schist, crenulated. Chlorite more abundant than above forming 4 mm bands locally. Pyrite disseminated oxidized cubes, locally with fresh cores. Trace 1 mm smoky blue cordierite. Quartz foliation boudined + folded. (27.12 - 27.3 m) QV - appears foliaform uphole but x-cutting downhole. WRI altered --> carbonate + pyrite. (27.3 - 35.77 m) Quartz - feldspar - chlorite SCHIST, striped + crenulated. Dark green to grey, striped at 1 mm scale quartz - feldspar - chlorite SCHIST, dark mineral interstitial to qfsp bands forming 1 mm clots ~ 3% - slightly harder than chlorite, not flaky. Well developed crenulation cleavage spaced 1 cm. Locally fabric is dominated by 1 cm; chlorite bands at low angle tca. Mafic and of intermediate schist. Pyrite oxidized rims, fresh core locally ~ trace. Qfol folded and boudinaged, carbonate in selvages + WRI. (35.77 - 37.50 m) FLT - Oxidized FAULT in intermediated schist. Rubbly, gougy, jigsaw textured, ??? Schist as above. Carbonate alteration as stringers + within felsic strips. Oxidized (limonite + pyrolusite). Minor QV at 35.8 m. Fault appears to have been reactivated (rubble or jigsaw textured schist.)	carb	Wk	lim	Wk	Carbonate - trace to weak to moderate locally. Limonite weak locally		EPy		0.5	APy		0.1	Epy - 0.5 to 1%; Apy - trace locally.	3
EC16-31	22.07	37.5	SCH-i		Banded crenulated Quartz - feldspar - chlorite SCHIST. Tan green banded + crenulated quartz - feldspar - chlorite schist, crenulated 1-2 mm stripes form felsic bands 5 cm wide with interstitial 1 cm chlorite often with quartz sweat boudins. Patchy carbonate alteration in stringers + matrix. Pyrite 0.5%, euhedral oxidized, disseminated. Quartz sweats boudined.	carb	Wk	lim	Wk			EPy		0.5					
EC16-31	37.5	39.7	SCH-m																
EC16-31	39.7	43.3	SCH-i		*** Was previously logged as a SCH-f. Quartz - feldspar - chlorite SCHIST, quartz - feldspar rich. Tan - green fine grained subtly foliated quartz - feldspars > chlorite schist / micaceous quartzite. Qfsp bands 2 - 4 mm with < 1 mm chlorite partings. 2% carbonate spots (1 - 2 m, rounded) within felsic bands. Pyrite oxidized cubes disseminated. Qfol pinch + swell with with locally sigmoidal shapes. 40.6 - 40.8 m: carbonate - quartz vein foliaform, not continuous through core. Local fresh pyrite (core of some clots). Lower contact gradational but increased layering (chlorite). Quartz - feldspar - chlorite SCHIST, layered. Dark green grey, patchily oxidized, compositionally striped quartz - feldspar - chlorite schist. Fine grained + competent. Layers discrete compared to lower interval. Pyrite fresh.	carb	Wk			Carbonate - weak to moderate.		EPy		0.5					
EC16-31	43.3	45.3	SCH-i		*** Possibly a QAS? - Quartz - feldspar - chlorite SCHIST, with quartz porphyroclasts. Quartz - feldspar - rich schist, with 10% 2 mm quartz clasts, grittier and less well - defined layers than above. Bugg grey.	lim	Wk					EPy		0.5		10			
EC16-31	45.3	45.8	SCH-i									EPy		0.5		2			
EC16-31	45.8	46.8	SCH-i		Quartz - feldspar - chlorite - epidote SCHIST. Dark green finely layered + folded quartz - feldspar - chlorite - epidote schist, epidote 7-10% as 2 mm clots and in some layers. Cut by jagged carb stringers with epidote selvages ex. at 46.70 - 46.80 m - trace overall. feldspar - chlorite schist, quartz sweats + felsic bands (4 mm) tightly folded (ptygmatic) locally , pyrite throughout as 1 - 2 mm euhedral pyrite cubes, oxidized. Concentrated around buff intervals near carbonate veinlets. 48.5 - 49.0: Buff orange interval, 10 cm irregular carbonate vein, slight pyrite ++. 49.50 - 50.55: ptygmatic quartz sweats. (51.02 - 52.45 m) As above, buff - green, slight increase in euhedral pyrite, carbonate veinlets / stringers 5 / m. With 5% 2 mm quartz clasts in matrix. (52.45 - 55.18 m) Quartz - feldspar - chlorite SCHIST, fine grained. As 46.8 - 51.02 m. (55.18 - 56.30 m) Quartz - feldspar - chlorite - carbonate SCHIST, limy horizon. Dark grey green fine grained banded on 3 - 4 mm scale with foliaform felsic + chloritic bands, quartz - feldspar - chlorite - carbonate schist. Carbonate within felsic bands + as 1 mm jagged clots within foliation 5%. Faint crenulation visible. Pyrite oxidized euhedral cubes ~ 0.5%, locally fresh. (56.30 - 57.08 m) Quartz - feldspar - chlorite SCHIST, altered hanging wall. Oxidized and altered version of above. Pyrite oxidized, matrix tan - green chlorite --> sericite? and core is rougher feeling, Less reactive --> weathering? Hematized at lower contact. (57.08 - 57.11 m) QV - Quartz - carbonate breccia vein. Selvages (above + below ints) with increased euhedral pyrite oxidized. (57.11 - 57.23 m) As 56.3 - 57.08, strongly altered interstitial to veins. (57.23 - 57.30 m) Quartz - Maybe QAS? - Pale green fine grained quartz - feldspar - chlorite - muscovite schist, quartz - feldspar dominant giving competent core, qfsp with chlorite partings, pyrite 0.5 - 1%, euhedral oxidized with anhedral clots oxidized, quartz sweats flattened with pich + swell shapes. Carbonate within sweats ~ 10%. 5% rounded quartz clasts 1 mm.	carb	Wk	lim	Wk	Carbonate - weak to moderate. Limonite - weak to moderate (locally).		EPy		0.5			Locally trace to 0.5% and 2%.	2	
EC16-31	57.11	61.34	SCH-i			lim	Wk					EPy		1					
EC16-31	61.34	64.45	SCH-f			lim	Wk					EPy		1		3			

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-31	64.45	70.4	SCH-i		(64.45 - 68.0 m) Dark green comply banded quartz - feldspar - chlorite schist foliation at ~ 20 degrees tca giving ribbon offset, chlorite bands 1 cm with boudinaged qfsp sigs + quartz foliaform veins. Qfoliaform with trace - 1% oxidized pyrite. Pyrite oxidized cubes + fresh anhedral tabs. (68.00 - 70.40 m) Quartz - feldspar - chlorite SCHIST, hematitic. Pale grey green crenulated + folded at cm - 10 cm scale banded (qfsp vs chlorite) quartz - feldspar - chlorite schist. 3% carbonate clots as in above carbonate intervals, felsic sigs + quartz sweats pytmatically folded, hematite (black, fine grained ~ 5%). 39.35 - 69.7 m: Elsewhere quartz sweats tinged hematite red. Fine grained anhedral pyrite fresh --> oxidized throughout. Trace cordierite? 2 mm round washed out appearance, fine grained + competent.	carb	Wk			Carbonate - weak to moderate.		EPy		0.1 APy		0.1 Epy locally.	7		
EC16-31	70.4	76.2	SCH-m		**** Previously logged as SCH-i (73.69-76.20 m). (70.40 - 73.69 m) Quartz - feldspar - chlorite SCHIST, banded. Dark green to grey strongly fold, crenulated quartz - feldspar - chlorite schist, chlorite more abundant making up majority of compositional bands, quartz sweats boudinaged + folded pyrite fresh. (73.69 - 75.20 m) Quartz - feldspar - chlorite SCHIST, deformed + brecciated. Dark green + tan green deformed + brecciated quartz - feldspar - chlorite schist crenulated but locally forming jigsaw breccia with chlorite matrix. Pyrite oxidized. Quartz sweats +/- carbonate folded + 3 cm thick, margins locally with increase pyrite. Pyrolusite within sweats ~ 5 - 10%. (75.20 - 76.20 m) Quartz - feldspar - chlorite SCHIST, limy horizon. Dark green finely striped + foliated, foliation weakly folded, pyrite within foliation layers + disseminated, freshcut by discontinuous carbonate stingers (trace). E.O.H. (3.05 - 3.20 m) QV - rich rubble, likely subcrop / float, some pieces re-drilled. (3.20 - 3.60 m) Quartz - chlorite SCHIST, weakly folded. Quartz - chlorite schist, finely 2 mm compositional striped, weak crenulation, pyrite oxidized euhedral cubes 1% (3% within 5 cm of quartz vein), quartz sweats discontinuous / boudined. Foliation folded at quartz vein contact. (3.60 - 3.70 m) QV - rubble, massive with coarse grained quartz + limonite in fractures. (3.70 - 4.38 m) Quartz - chlorite schist, deformed and altered. Rubbly + gouge quartz - chlorite schist, felsic selvages + qfol veins folded + boudinaged. Pyrite oxidized disseminated 2%. Tan color. 3 mm pyrite cubes - 2% locally. (4.38 - 5.10 m) QV - massive and fractured, continuous intercept. (5.10 - 5.17 m) QV connect to 4.38 - 5.10?, with 40% WRI. VG on pyrite cubes in WRI. 0.5 cm x 0.5 cm smeared dot with 4 - 5 fine points within pyrite + margins. At 5.11 m. (5.17 - 5.23 m) Crenulated pyritic schist (quartz - chlorite) tan - green. (5.23 - 5.32 m) QV. (5.32 -5.42 m) Tan green quartz - chlorite schist with 3 mm pyrite cubes 2%. (5.42 - 5.47 m) QV - part of network in above interval, hybrid vein. (5.47 - 5.61 m) Green - tan schist, banded with ++ chlorite, pyrite oxidized cubes within foliation + disseminate. Lomnite stained 1 mm. foliation. Quartz vein, VG as 1 mm clot of pinpoint gold @ 5.73 m. Along vein / WR contact (vein side), on quartz crystal.	carb	Mod			Carbonate - weak to moderate locally.		EPy		0.5					10
EC16-32	3.05	5.61	SCH-i			lim	Wk				Y	EPy		1		Epy - 1%, 2% and 3%.	1		
EC16-32	5.61	6.05	QV			lim	Wk				Y	EPy		2					
EC16-32	6.05	8.84	SCH-i		(6.05 - 7.31 m) Tan green quartz - feldspar - chlorite schist, chlorite discrete bands seeping deformed qfol + qfsp segs. Foliation folded and disrupted. (7.31 - 7.41 m) QV (7.41 - 7.62 m) As 5.96 - 7.31 m, folded, pyrite in vein haloes ++. (7.62 - 7.72 m) QV. (7.72 - 8.84 m) Tan green banded at cm scale with qfsp vs chlorite foliations, crenulated. Minor fault / rubble at 8.4 - 8.5 m. 8.5 - 8.84: increase pyrite ~ 4% limonite, euhedral, oxidized. 8.5 - 8.84 increased pyrite ~4%, 1 mm, cubic, oxidized. Rubbly interval of quartz vein. Down hole contact approx due to lost core.	lim	Wk					EPy		1		Epy - trace up to 1%.	5		
EC16-32	9.05	14.97	SCH-i		***Previously logged as SCH-m (9.05-11.26, 11.31-11.68 m); (9.05 - 11.26 m) Quartz - feldspar - chlorite SCHIST, transitional. Green - grey quartz - feldspar - chlorite schist, chlorite cand's more dominant than above; separating chlorite + quartz + feldspar segregations from quartz sweats (boudined, folded). Transitional between mafic and intermediate schist (qfsp rich at 10.5 m) but generally chlorite dominant fabric + increased qfol. Pyrite within foliation, oxidized euhedral. (11.26 - 11.31 m) QV (11.31 - 11.68 m) As above 9.05 - 11.26. Felsic bands brecciated, euhedral pyrite up to 3 mm. (11.68 - 11.90 m) FLT - Gouge + rubbly core, foliation ~ flat tca in fragments. (11.90 - 12.25 m) Tan - green quartz + feldspar + chlorite schist, sericite altered, pyrite disseminated cubes oxidized. Altered along fault. (12.25 - 12.38 m) QV - rubbly fractured quartz vein. (12.38 - 14.97 m) Grey - green Quartz - feldspar - chlorite SCHIST, weakly developed crenulation cleavage, quartz - feldspar > chlorite creating discontinuous chlorite laminae. Pyrite throughout oxidized, euhedral cubes, 1 - 4 mm. Cut by quartz - limonite stringers. Folded + rubbly at 14 - 14.25 m. Possibly Nugget vein; Contacts punky, clay + ser alteration. Vein brecciated by later phase of qtz. WRI ~ 10%, strongly pyrolusite + lim + pyrite altered. AT 14.97 m - VG, 1 mm clot (smeared by saw) at margin of cubic pyrite crystal in quartz.	lim	Wk	ser	Mod	Limonite - local. Sericite - local.		EPy		1				Epy - 1% up to 1.5% locally.	12
EC16-32	14.97	15.45	QV								Y	EPy		1					
EC16-32	15.45	17.29	SCH-i		(15.45 - 16.32 m) Quartz - chlorite schist. Lower 20 cm increased pyrite (altered hanging wall.) (16.32 - 16.45 m) QV - fractured with fault gouge, possibly bi-phase quartz (fragments in fine grey matrix). (16.45 - 16.60 m) Qfsp > chlorite (-> sericite?) schist, altered interstitial pyrite disseminated + oxidized. Pale grey - green. (16.6 - 16.7 m) QV - hybrid? appears to be folded + cross cuts foliation. At 16.70: VG, 1 mm clot smeared by saw, edge of pyrite crystal in vein wall. (16.7 - 17.20 m) Quartz - feldspar - chlorite SCHIST, oxidized pyrite cubes locally fresh cores?, clots + streaks of tan coating in matrix. (Fe - carbonate?). (17.20 - 17.29 m) QV - at contact between more chloritic layered schist uphole + more qfsp - rich with chlorite partings downhole. (17.29 - 17.71 m) Quartz - feldspar - chlorite SCHIST, qfsp - rich. Quartz - feldspar - chlorite schist, pale grey green, chlorite bands. Very fine, competent + hard relative to above. Pyrolusite on fractures, weak limonite. Pyrite trace, oxidized cubes, concentrated at vein margins. Qfol < 5 mm, flattened. (17.71 - 17.78 m) QV. (17.78 - 20.47 m) Quartz - feldspar - chlorite SCHIST, qfsp - rich + oxidized. Light tan - green qfsp > chlorite schist, competent + finely foliated, oxidized along ~ 1 cm spaced partings. Pyrite trace, fine grained and oxidized. 19.2 - 19.29: irregular quartz sweats? appear to x-cut, WRI limonite +. (20.47 - 20.58 m) QV - set of two quartz veins, part of same network? (20.58 - 21.40 m) Buff - tan - green finely layered Quartz - feldspar - chlorite SCHIST, quartz - feldspar with chloritic separations, layers discontinuous but uniform throughout. Qfol 2 - 3 m pinch + swell flattened + planar. Pyrite oxidized. (21.40 - 25.11 m) Quartz - chlorite SCHIST, altered. Tan - green faulty foliated with crenulations, quartz - chlorite schist, altered (bleached, carbonate, pyrite along stringers), cut by fine (Fe) carbonate stringers with pyrite halo. (3% vs 0.5% background).	lim	Wk			Limonite locally weak to moderate.	Y	EPy		1				Epy - 1% and locally up to 3%.	5
EC16-32	17.29	17.78	SCH-f									EPy		0.1			5		
EC16-32	17.78	25.11	SCH-i			carb	Mod	lim	Wk	Carbonate - moderate locally. Limonite - moderate to weak.		EPy		0.1		Epy - 0.5% locally.	2		
EC16-32	25.11	25.38	QV		Grey coarse grained blocky, brecciated crystals uphole and pyrolusite, QV, weak limonite on fractures. Carbonate along brecciated quartz crystals. Selvage weakly brecciated with carbonate + pyrolusite, oxidized pyrite in halo. (25.38 - 26.10 m) as 21.4 - 25.11 m. Carbonate altered. (26.10 - 26.60 m) - Quartz - chlorite schist, altered, carbonate breccia. Dark green fractured (carbonate + clay fill) schist, brick red hematitic? bands along foliation, chlorite darker almost black, carbonate stringers + matrix alteration. Contact breccia for lamprophyre. Lower contact 67 degrees tca.	carb	Mod	lim	Wk	Carbonate - moderate to strong. Limonite - weak to moderate.		EPy		0.5			2		
EC16-32	25.38	26.6	SCH-i		**Was previously logged as a LAMP - Dark grey spotted with chlorite after hornblende (?) 1 mm, clot? by boxwork of carbonate - clay stringers (10-20 / m) basalt dyke. Contact with altered schist sharp. Fine grained feldspar + hornblende matrix, chlorite after mafic phenocrysts, 5%, trace 10 x 5 mm plagioclase laths. Pervasive carbonate, incl after some feldspar? phenocrysts. Pyrite locally anhedral - 5% (after magnetite?). 28.11 - 28.20 m: epidote in carbonate veinlets / fracture fill. 28.96 - 29.15 m: Very fine grained hard pale green massive, cut by carbonate veinlets, quartz clasts 1 - 2 mm, possibly SCH-f.	carb	Str												
EC16-32	29.15	31.05	SCH-i		Quartz + schist fragment Breccia. Yellowish green multi-phase breccia, clasts of quartz (foliation veins?) and felsic segregations of intermediated schist, up to 4 cm clasts down to finely milled quartz. Matrix chlorite + carbonate + epidote? (tan greenish, moderately hardness, no reaction). Lower 20 cm massive with quartz clasts (~ 1 cm, 10%) silicified. Lower contact 65 degrees tca.	carb	Wk												
EC16-32	31.05	33.5	BAS		*** Was previously logged as LAMP - but mentions plagioclase crystals making it not a LAMP. Greenish tan fractured (carbonate fill) basaltic dyke. Matrix soft (-> sericite?) but no reaction, veinlets strong carbonate. With ~ 2 cm dark carbonate + chlorite + wisps / fractures. Matrix fine grained tan soft with hornblende + plagioclase fine grained crystals (hornblende --> chlorite, plagioclase --> carbonate + sericite).	carb	Mod												
EC16-32	33.5	34.88	SCH-i		(33.50 - 34.17 m) Brecciated quartz - chlorite SCHIST. Green - grey brecciated quartz - chlorite schist, but by carbonate veins, with fine grained oxidized euhedral pyrite in 1 cm band uphole contact, 10%. Lower contact 20 degrees TCA. (34.17 - 34.88 m) FLT - Contact / fault breccia. SCH-i + quartz clast breccia, milled with fragments up to 2 cm, weak carbonate within matrix. Incl ~ 154 cm (true) gougy fault 34.18 - 34.39 m.	carb	Mod			Carbonate - weak to moderate.		EPy		0.1					
EC16-32	34.88	44.1	BAS		** Was previously logged as a LAMP; (34.88 - 42.10 m) Dark grey with orange patches feldspar + hornblende ? --> chlorite phyric basalt dyke, cut by boxwork of carbonate stringers oxidized along stringers. Stringers / veinlets massive white calcite ~ 40 degrees tca but variable. Weak to strong magnetic. 37.5: slickensides in calcite fracture fill. (42.10 - 43.28 m) Orange brown oxidized + fracuted (limonite, rubbly), cut by ~ 20 - 30 calcite stringers / m boxwork, at 42.95 m infilling calcite + Fe carbonate in void. Carbonate in matrix + as fracture fill / stringers. (43.28 - 44.10 m) Brecciated basalt dyke. 50% basaltic dyke with 50% quartz + schist breccia. Basalt cut by 3+ cm wide open space / cockade textured calcite - Fe carbonate pyrolusite vein, calcite in-filling. Fe carbonate. Halo oxidized.	carb	Mod	lim	Mod	Carbonate - moderate to strong. Limonite - moderate to strong.									
EC16-32	44.1	48.05	SCH-i		(44.10 - 45.0 m) FLT - Healed fault gouge, dark grey breccia textured with quartz + schist clasts in fine grained milled matrix, gougy + friable. (45.0 - 45.36 m) Dark grey foliated + weathered quartz - chlorite SCHIST, intact but fractured + rough. Carbonate throughout. (45.36 - 48.05 m) FLT - Dark grey brown to pale green FAULT GOUGE, local intact pieces up to 10 cm but generally obliterated. Swelling clay throughout. Fragments: quartz, quartz - chlorite schist, felsic schist, somewhat intact at 47 m but rubbly + gougy. chlorite - muscovite schist, fine muscovite throughout. 2 - 10 mm quartz carbonate foliaform veins +/- oxidized pyrite ~ 10% pinch and swell, folded isoclinal, oxidized pyrite 0.5% throughout. Carbonate in foliaform veins. 51.21 - 51.32 m: strongly pyritic + oxidized chlorite + muscovite with boudinaged quartz foliaform vein?felsic seg? base of unit. (51.32 - 56.40 m) Quartz - chlorite - muscovite SCHIST, quartz rich. Pale green subtly foliated quartz - chlorite - muscovite schist, hard and competent, with 2-3% 1 mm rounded tabular feldspar (plagioclase) porphyroblasts, possibly relict phenocrysts. Cut by ~ 2/ m quartz + limonite fractures. Pyrite 0.5% fine oxidized cubes throughout, increasing near fractures. 52.5 - 53.0 m: 2 - 3% pyrite, coarse grained cubes up to 3 mm in hanging wall > footwall of quartz veinlet with oxidized selvage at 52.87 m. 53.58 - 53.88 m: 2% pyrite, oxidized coarse grained cubes and pits along limonitic fracture @ 53.79 m, 45 degrees tca. 56.0 - 56.4 m: Heavily oxidized irregular network o f2 - 10 mm fractures along core axis. Core weathered + rubbly. (56.40 - 57.80 m) Qtz - chl - musc SCH, oxidized. Pale green qtz - chl - musc sch as above but pervasive oxidation. Patchy lim streaks + weathered appearance. Slight increase in foliaform qtz - carb veins (lensoidal + pitted). (57.91 - 57.97 m) Moderately altered Qtz - chl - musc sch, carb lenses. (58.10 - 63.61 m) Qtz - chl - musc SCH, layered. Pale	carb	Mod	lim	Wk	Carbonate - moderate to strong. Limonite - weak to locally moderate.									
EC16-32	48.05	63.88	SCH-f			carb	Wk	lim	Wk	Carbone - weak to moderate, patchy. Limonite - trace to weak to moderate, patchy.		EPy		0.1		Epy - trace, 0.5% to 1% locally.	1		

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-32	63.88	68.78	SCH-i		Quartz - chlorite schist, layered. Green - grey layered schist, felsic (quartz > chlorite) bands 3 - 15 mm separated by 2 - 3 mm chlorite - rich bands. Foliaform quartz vein 7%, lensoidal, sigmoidal locally. Felsic segments / layers similar to above schist but chlorite bands define layered texture.	carb	Tr					EPy		0.1			7		
EC16-32	68.78	76.2	SCH-f		Quartz - chlorite - muscovite SCHIST, weakly layered. Pale green quartz - chlorite - muscovite schist, layering more subtle than above with discontinuous chlorite - rich layers 2 - 3 mm. Patchy carbonate with discontinuous veinlets, trace. Qfol 1 cm, pinch and swell, folded, 5%. E.O.H.	carb	Wk					EPy		0.1			5		
EC16-33	0	4.57	CAS																
EC16-33	4.57	33.38	SCH-i																
EC16-34	0	7.62	OVB		Casing to 25 feet; 15 cm caved ground rubble at start of hole - not sampled.														
EC16-34	7.62	9.22	MGRA		Pinkish coloured biotite granitic unit, weak to moderately foliated and hematitic to 13.4 m; common 12/ m very thin 1-2 mm earthy orange carbonate x-cutting veinlets perpendicular to foliation.	carb	Wk	lim	Mod			APy		0.1					
EC16-34	9.22	9.41	MGRA		Intensely FeOx crumbly granitic host interval between QV;s with ankhoritic x-cutting fracture fills/ veinlets .	carb	Wk	lim	Str										
EC16-34	9.41	12.8	MGRA		Granitic unit; poorly foliated, biotite rich with thick FeOx + ankerite sheeted fracture fill sets 90% foliation interval is somewhat broken; minor sericite towards lower section.	carb	Wk	lim	Str										
EC16-34	12.8	13.35	MGRA	Other	Pink white PEGMATITE VEIN up to 6 cm wide sub parallel to core axis cuts MGRA (bi - GNE granitic unit at very low angle to core axis; vein is not continuous or planar. 3-5 mm milky green sericite alteration envelope around the PEG vein; PEG has local drusy rusty open space cavities up to 4 x 2 cm.	carb	Tr	lim	Str										
EC16-34	13.35	15	MGRA		silicified and sericite altered hanging wall (to violet vein and FLT system) granitic host with rusty pitted x-cutting quartz stringers up to 2 cm wide all as sheeted stringers and "dry" fracture fillings of intense limonite / goethite; rare carbonate in x-cutting FeOx fracture filling. (x-cutting sheeted stringers consistently cm spaced apart).	carb	Wk	lim	Str			APy		0.1					
EC16-34	15	15.2	MGRA		Green yellow hanging wall silicified and quartz stringer x-cutting veined interval with heavy clay altered phenocrysts of the granitic host; intense. White fractured QV (main violet vein intersection) intensely rusty fractures and coats local open space cavities. 15.90 - 16.10 m - altered sericite / silicified MGRA host within QV with stockwork quartz stringers up to 25 mm wide, abundant FeOx and increase concentration of galena and pyrite in stringer stwk (< 1% overall).	lim	Str					APy		0.1					
EC16-34	15.2	16.86	QV		FW zone of the MGRA; Granitic host interval, yellow green sericite altered plus silicification cut by numerous up to 10 / m sheeted x-cutting quartz stringers up to 6 mm wide.	lim	Str	ser	Str			EPy		0.5	APy	0.5			
EC16-34	16.86	23.5	MGRA		Granitic hematized unit with common biotite altered to chlorite in a quartz feldspar equigranular matrix; thick limonitic coating of fracture surfaces gradually decreases down hole; weakly foliated. (23.7 - 24.8 m) - moderately broken with intense FeOx and yellow clay and pyrolusite dendritic textures on fractures. (29.0 - 29.9 m) - broken silicified interval centered on a 1 cm quartz stringer (with two sub parallel 2 mm veinlets) at 29.4 m; trace carbonate on fractures.	ser	Mod	lim	Wk			APy		0.5					
EC16-34	23.5	33.2	MGRA		Pink well foliated striped granitic unit with coarser quartz phenos and distinctly better defined layers of more mica rich vs quartz / feldspar giving a consistently foliated planar fabric 10 - 12 degrees tca. (35.5 - 39) - Interval is moderately broken with common hematitic clay gouge sub parallel to foliation with strong carbonate buildup on fractures locally.	hem	Tr	lim	Wk			APy		0.1					
EC16-34	33.2	44.5	MGRA		Granitic (pinkish) hematized gneiss becomes very quartz rich and glassy with foliation being contorted - possible fold towards lower contact. (46.5 - 46.8 m) - < 1 cm wide slice of quartz and pink feldspar is exposed parallel to foliation (not a x-cutting feature like the pegmatite dykes in other holes) and is discontinuous.														
EC16-34	44.5	49.3	MGRA																
EC16-34	49.3	60.4	MGRA		Distinct change (speckled overprint and non-foliated, < 1 -> 3 mm Bi, unit is weakly foliated)to to a dark green very biotite rich unit with quartz and feldspar throughout (still looks like a granitic protolith however becomes more schistose due to large increase in mica content). Core is broke between 49.1 - 49.6 m. Interval is cut by late cross cutting thin 1-3 mm carbonate veinlets 1-2 / m carbonate veinlets.						APy		0.1						
EC16-34	60.4	60.9	MGRA		Dark green granitic unit with abundant Fe carbonate in fractures and matrix of rock; Biotite overgrowth texture -> chlorite and less distinct due to carbonate alteration (start of zone of quartz veining / PEG pegmatitic dyke cutting the core at a low angle tca and variable non planar contacts - areas difficult to see if x-cutting or not).	carb	Str	lim	Mod			APy		4					
EC16-34	60.9	62.5	MGRA		Biotite speckled dark green granitic unit with 25- 30% clear to white quartz (vein?) material and pink feldspar PEG pykes (+ some x-cutting QV???)							APy		0.1					
EC16-34	62.5	63.2	MGRA		Dark green biotite rich dirty looking interval with distinctly larger feldspar porphyroblasts ? / porphyroclasts? up to 1.5 cm in a finer grained granitic biotite rich groundmass; unit is weakly foliated.	carb	Tr	lim	Wk										
EC16-34	63.2	68.8	MGRA		Pink and pale green sericite altered, silicified ad sericite altered, granitic host cut by abundant irregularly shaped clear milky white quartz and pale pink, feldspar PEF intervals up to 20% overall. 66.7 - 67.13 m zone of 80% clear PG quartz; host is sericite altered and silicified.	lim	Tr	sil	Str										
EC16-34	68.8	77.72	MGRA		Coarse grained granitic interval with feldspars and quartz up to 5 mm displaying a consistent fabric (penetrative usually 20% tca). At 79 m - < 1 cm truncated and offset en en echelon mm scale offsets PEG stringer in biotite rich meta granite. 71.2 - 72.0 m - fractured interval with Mn coating fractures + FeOx broken core. 73.3 - 73.5 m - broken Mn / FeOx with < 0.5 cm wide truncated and offset PEG dykes; minor white clay coats thin fractures. 75.1 - 75.6 m - zone of highly irregularly boudinaged PEG dyke sub parallel to foliation with 8 cm rusty faulted lower contact. 76.0 - 77.75 m Broken faulted core with intense FeOx to waxy white clay and pyrolusite coating fracture; PEF stringers 77 - 77.25 m.	carb	Tr	lim	Wk		APy		0.1						
EC16-35	0	7.35	OVB		Casing + 30 cm of doubly ground rubble re-drill to 7.35 m(area not sampled).	carb	Wk	lim	Str			APy		1					
EC16-35	7.35	8.8	MGRA		Pale green silicified altered meta-granitic unit with sheeted 4 mm clear quartz stringers ?x-cutting, most are parallel to foliation; late very thin x-cutting irregular Fe Carbonate veinlets throughout. Yellow - white clay gouge for 5 cm at 8.1 m coating a fracture oriented - 25 degrees tca. Orange tan to green biotite rich granitic interval often quartz feldspar form weakly developed augen texture (in a chlorite / biotite matrix); patches of pervasive Fe carbonate plus common wispy ragged with calcite and Fe carbonate x-cutting stringers and fracture fill. Mn coats fractures.	carb	Wk	lim	Str		APy		0.5						
EC16-35	8.8	12.84	MGRA		Pale green tan silicified interval with cross cutting quartz plus carbonate open space fracture; very strongly pervasively silicified; intense FeOx, Mn on fractures with 1% pyrite as rusty pits along selvage of x-cutting quartz/ carbonate.	carb	Str	lim	Str			APy		0.1					
EC16-35	12.84	13.42	MGRA		Green and orange banded, foliated biotite -> sericite rich granitic interval with common pale green sericite and patchy silicification; significant zones of carbonate in matrix and coating fractures carbonate between 16.9 - 17.2, 17.4-18.4 m. at 15.50 m - 2 cm QV x-cut 15.87 - 0.5 QV, x-cut. 16.52 - 16.62 PEG dyke. @ 17.9 m 3 cm quartz lens in fault fracture	ser	Str	lim	Str		APy		0.1						
EC16-35	13.42	18.65	MGRA		Dirty tan / brown green biotite rich granitic hanging wall to violet vein below; intensely rusty; poorly foliated. - 3 < 0.5 cm x-cutting quartz stringers.	carb	Str	lim	Str	Silicified - moderate		APy		1					
EC16-35	18.65	19.7	MGRA		Violet vein, milky white fractured quartz vein, broken with intense FeOx on fractures (within the quartz itself) plus 20% wall rock as sericite and yellowy white clay + biotite pitted blocks within the quartz; overall vein is porous and sugary textured.	carb	Wk	lim	Str			APy		0.1					
EC16-35	19.7	20.5	QV		Pale green / yellowish intensely altered granitic FW to violet vein with 30% QV sheeted veins plus stockwork in clay and sericite (and intense FeOx on fractures) pervasive alteration.	lim	Str					EPy		1.5	APy	1			
EC16-35	20.5	21.07	MGRA		True FW of 7 sheeted quartz stringers up to 1 cm wide in first 30 cm of interval and gradually decreasing away from (violet vein and down hole) as does the sericite and clay alteration; this interval cross cut by local very thin carbonate wisps and fracture fills which are late - x-cutting foliation and quartz stringers.	lim	Str	ser	Str			EPy		1	APy	1			
EC16-35	21.07	21.65	MGRA			lim	Wk	ser	Mod	Carbonate - trace.		APy		4					
EC16-35	21.65	23.4	MGRA		Pink / green granitic hematized interval with abundant biotite (foliated moderately well - 30 degrees tca) local augen shaped quartz and feldspar; at 22 m 1- 1.5 cm boudinaged deformed quartz ?PEG vein parallel to foliaiton ~ 30 degrees tca. At 22.1 m - crudely aligned coarse open space cavities (intensely rusty and Manganese coated) up to 2 cm2 roughly oriented 70 degrees tca which cross cuts foliation and earlier deformed quartz lens at 22 m. 22.5 - 23.4 m pink green banded granitic textured interval that is highly rich in quartz and distinctly banded with biotite "overprinting" At 23.4 m highly deformed on a cm scale.	carb	Tr	lim	Mod										
EC16-35	23.4	31.1	Other		Sulphur Creek orthogneiss?? Dark green quartz - feldspar biotite schist (with granitic protolith?) well foliated with abundant biotite (gone to chlorite); could be a large xenolith within the meta granite? but looks older and more deformed than unit at start of hole. White to blue waxy white larger porphyroblast (clast?) (cordorite??) stand out in abundant green dark green chlorite after biotite matrix; overall unit is very uniform with clots of dark green chlorite / biotite as 2 mm x 5 mm blebs aligned along foliation; Unit has 3-5 mm cubic pyrite < 1% throughout as porphyroblasts. 28.80 m 9 x 2 cm discontinuous wedge of quartz / feldspar, broken and fractured; ?PEG														
EC16-35	31.1	31.7	Other		PEG - clear grey quartz with 40% pink coarse crystalline feldspar pegmatite dyke; multi-generational of dyking.														
EC16-35	31.7	54.86	MGRA		Pink with pale green bands equigranular granitic unit with distinct overprint of 4 mm biotite to end of hole; consistent weak to moderate foliation 39 - 40 degrees tca. 31.70 - 32.3 - gradually becomes hematitic from green biotite rich chill margin of PEG dyke above - granitic ground mass. At 37.7 m < 2 cm PEG dyke and 1 cm gouge at lower contact. 39.60 - 40.90 m green sericite altered interval, weakly silicified with minor epidote clots along foliation at upper contact; interval is locally pitted with < 1 cm2 open space cavities. - 40.8 - 40.9 m < 1 cm boudinaged PEG dyke along foliation. 42.10 - 42.30 m - PEG lenses and slices with resinous hematite blebs at upper contact (after pyrite cubes?). At 42.30 m 2 cm fault with yellow clay gouge oriented LC - 25 degrees tca. 46.15 - 47.3 m Xenolith? older orthogneiss unit? Dirty green biotite rich very well foliated interval with blue waxy white porphyroblasts (?cordierite?) - similar to distinctly different ?? older SCH of quartz feldspar, Si rich between 23.4 - 31.1 m including common 3-5 mm cubic pyrite porphyroblasts. At 47.28 m sharp fault plane with 2 mm white clay and hematite with slickensides. Fault plane 33 degrees tca; apparent rake of slickensides - 10 degrees tca (in the plane of the fault). 52.7 - 54.86 (granitic unit becomes broken at 72.7 m and moderately silicified to E.O.H.	lim	Tr	hem	Mod										
EC16-36	0	3.05	OVB		Casing to 3.05 m, no core recovered.														

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-36	3.05	13.5	MGRA		(3.05-6.40 m) - intensely broken, FeOx, clay rich zone of silky green sericite altered granitic (MGRA) protolith, very quartz rich. - clots of < 1 mm very rusty pyrite along folia with local cubic forms pressured. Biotite --> sericite gives core a pale green silky look with abundant orange FeOx on fracs. - < 2 cm gouge slip planes throughout. (6.40 - 13.50 m) - green / orange oxidized granitic interval, poorly foliated with patches of coarser grey and white quartz phenocrysts in an equigranular quartz >> feldspar groundmass;< 1% euhedral, < 2 mm pyrite clots; biotite --> sericite and sericite content increases down hole. 9.75 - 9.9 m intensely sericite altered granitic unit with 4 x 7 cm patchy of clear grey quartz lens; white feldspars in quartz and euhedral 1 mm pyrite concentrated at quartz margin - in host rock mostly. Green grey sericite rich granitic interval with 10% slices of grey / white quartz vein material running roughly down the core axis, non planar contacts with black biotite and rare fine grained pyrite along vein margins; foliation of wall rock is deformed sub parallel to veining (5 degrees tca) and curilinear.	lim	Str	ser	Str			EPy	4 APy	1			
EC16-36	13.5	15.1	MGRA		PEG - clear grey and white quartz vein with 5% pink feldspar at upper and lower contact ?PEG dyke, fractured with iron oxide coating quartz; deformed upper and lower contact.	lim	Mod		ser	Str			APy		1		
EC16-36	15.1	16.35	Other		Green grey sericite rich granitic interval with zones of deformed pegmatite dykes, broken with intense iron oxide coating fractures. 16.75 - 17.10 m slice of PEG, discontinuous < cm wide. 17.6 - 17.85 m PEG lens 18.08 - 18.13 m 5 cm QV ?PEG, core is ground. At 19.25 - 3 cm QV ? PEG At 19.35 2x4 cm lens of PEG	lim	Mod					APy		0.1			
EC16-36	16.35	19.4	MGRA		QV with PEG, pink feldspar rich white quartz vein with 10% open space, intensely rusty with faulted gougy lower contact; vein less massive than PEG up hole with < 1% pyrite as euhedral cubes in wal rock near broken contacts.	lim	Str	ser	Str				APy		0.1		
EC16-36	19.4	19.55	QV		Orange tan / green clay rich broken faulted granitic interval with sharp lower contact - 50 degrees tca. Abundant pyrolusite on fractures ad gouge at upper broken contact.	lim	Str						APy		4		
EC16-36	19.55	20.2	MGRA			lim	Str						APy		0.1		
EC16-36	20.2	22.7	MGRA		Pale green grey sericite rich HW to violet vein; speckled with orange clay after feldspars; interval cut by > 9 sub parallel sheeted milky quartz stringers up to 1 cm wide oriented - 72 degrees tca where as poorly developed foliation of granitic wall rock is 0-5 degrees tca. Violet vein main target intersection. Milky white quartz vein, generally very tight with rare open space cavities however common hair like rusty orange partings; up to 3% local concentration near hanging wall of euhedral rusty pyrite blebs up to 4 mm in size, *Spec of VG on edge of rusty euhedral pyrite in quartz at 23.4 m, tiny spec of VG on euhedral pyrite in quartz. Note: between footage block 23.16 and 24.08 m at lower contact of violet vein is 0.60 m LOST core interval.	lim	Mod	ser	Str								
EC16-36	22.7	24.08	QV			lim	Mod				Y	EPy	2.5				
EC16-36	24.08	50.3	MGRA		(24.08 - 39.4 m) - Major orange brown fault zone with 10 cm pieces of silky green sericite altered, variably silicified granitic host; clay in patches and common coating fractures (up to 2 cm wide), distinct lack of carbonate; numerous x-cutting rusty hair like fractures throughout. Major gouge rich sections between: 32.5 - 33.5 m up to 80% clay. 38.9 - 39.4 - 50% clay with UC40 degrees tca, LC is 50 degrees tca. At 34.5 m 8 mm x-cutting QV in granitic rubble. 35.0 - 36.3 m - hematitic granitic quartz rich interval within fault, (39.4 - 50.1 m) - pale orangey green grey granitic, poorly foliated interval; common rusty sub parallel fracture sets at high angle to core axis (70 - 90 degrees tca) with minor open space and 3 mm wide alteration halos locally, bleaching (+ silicification?) - no observed QVin section. Minor clay coating fractures. Local dendritic pyrolusite. (50.1 - 50.3 m) - Silvery green sericite rich clay gouge fault zone with 20% at contact between equigranular quartz, feldspar biotite poorly foliated unit to very well foliated very sericite rich schistose unit below.	lim	Str	ser	Str	Hematite local - strong							
EC16-36	50.3	57.6	Other		Pale silky green very sericite rich well foliated schistose unit with crenulation cleavage developed; (older than MGRA host above) marked appearance of up to 8 cm euhedral pyrite cubes up to 1% near upper and lower contacts; granitic composition of quartz / feldspars but very phyllosilicate rich.	lim	Mod		ser	Str			EPy		1		
EC16-36	57.6	58.9	MGRA		Patchy orange granitic unit with fine grained intervals of green grey (?sericite) rich layers; zone is weakly silicified in granitic patches while schistose layers are soft due to sericite content; ?chill margin of intrusive?; common dendritic pyrolusite on fractures. 58.5 - 58.9 m - 5 cm gouge rich lower contact with 50% orange FeOx stained granitic 3 mm fragments.	lim	Mod		ser	Mod							
EC16-36	58.9	76.2	MGRA		Orange stained (pink / white with dark grey specs g-f-bio) granitic interval equigranular with magnetite note at 5967, 68 and near 75 m - (mag sus indicates magnetite presence nicely). Intense FeOx limonite on fractures throughout granitic interval; broken zones 61-61.3m, 63.4-64.9, 68.6 - 70.5 with 2 cm gouge at 70.5 m. Thin orange brown 1-3 mm thick network of carbonate x-cutting late fracture fills up to 15 / m (+ rarer white wispy cordite?? @ 73.8m).	carb	Mod	lim	Str			APy		0.1			
EC16-37	0	2.9	OVB		7 feet of casing; OVB? rubble reground core with 20% quartz 3 cm3 rounded fragments in hematitic coarse granitic host.	lim	Str	hem	Str				APy		2		
EC16-37	2.9	4.9	MGRA		Pink silky green sericite altered granitic unit, generally poorly foliated with patches of more sericite rich intervals giving foliation 30 degrees tca; intense FeOx.	lim	Str										
EC16-37	4.9	5.5	Other		PEG - faulted clay rich interval with 40% PEG clear and white quartz and pink coarse k-spar and wall rock inclusions especially near end of interval; common on fractures.	lim	Str	hem	Str				APy		0.5		
EC16-37	5.5	9.7	MGRA		Altered zone of granitic unit with common Mn pyrolusite on fractures with abundant silky green grey sericite alteration and patchy pink hematized staining; interval is moderately broken and faulted with white / clear quartz / pink feldspar PEG: @6.05 m 5 x 1 cm quartz and rusty open space discontinuous QV; 6.75 - 7.25 m fractured zone of 50% PEG + x-cutting milky white QV. 7.45 - 8.10 m faulted broken granitic unit with 60% PEG and white QV. @ 8.9 m 4 mm QV with open space. @ 9.05 - 1 mm "dry" quartz less fracture with 30% open space and 5% local rusty pyrite coating fracture. @9.45 m deformed white quartz + rusty pyrite and epidote fracture coating up to 8 mm wide.	lim	Str	ser	Str								
EC16-37	9.7	13.72	MGRA		Pink grey coloured equigranular (medium to coarse grained) quartz / feldspar granitic with weakly developed foliation and ubiquitous black biotite; interval has thick < 2 mm dark orange FeOx limonitic fracture; local quartz augen texture.	lim	Str	hem	Mod				EPy	2 APy	2		
EC16-37	13.72	14.7	Other		Grey and white quartz with coarse pink feldspar pegmatite dyke; (drillers pulled rods + 40 cm of caved material at start and end of interval (not included in logging or samplings as clearly redrilled ground rounded cobbles in core box).								APy		1		
EC16-37	14.7	15.5	MGRA		Pale green / tan pervasive clay altered granitic unit with distinct set of cross cutting limonite 14 thin 4 m limonitic fracture coatings (no carbonate, but clay + limonite) with 2 mm bleached pale yellow alteration selvages giving core a striped texture.	lim	Str						APy		0.1		
EC16-37	15.5	25.7	MGRA		Hematitic pink / and sericite green patchy zones within a granitic quartz / feldspar and biotite interval cut by numerous PEG dykes; common thick limonite on fractures with up to 3 cm bleached selvages - overall core is hematite stained but hematite not present in alteration envelopes to "dry" quartz less fractures --> irregular patchy look; common Mn pyrolusite coats fractures @ 19 m magnetite noted with Mag sus. Unit becomes less hematized toward lower contact with increase in dykes x-cutting very thin QV.	lim	Str	hem	Str			APy		4			
EC16-37	25.7	29	MGRA		Pale grey green granitic unit with increase in sericite as thin < 1 mm layers; quartz feldspathic groundmass; distinct > 12 / m set of fractures with 2 cm long x 6 mm wide open space cavities, rusty Mn coated (no continuous quartz veining but "dry" porous fracture set x-cutting foliation; core becomes broken down hole.	lim	Mod						APy		1		
EC16-37	29	36.4	MGRA		(29 - 30 m) - silicified bleached pale green interval MGRA granitic with sheeted > 15 / m quartz stringers up to 3 cm wide + FeOx. (30 - 36.40 m) - orange crumbly clay rich broken granitic, intensely rusty with up to 2 mm limonite coating fractures rubble variably magnetic quartz / feldspar and sericite granite host with gougy - poor core recovery between 30 - 34.1 m.												
EC16-37	36.4	42	MGRA		Green granitic interval with local augen texture of coarse quartz porphyroblasts and overprinting of dark green biotite clots - weakly foliated. - PEG dyke 39.1 m clay FeOx fracture zone - 38.7 - 39.20 m. 39.53 - 39.5 m - PEG 40.50 - 40.80 m - PEG 41.1 - 41.25 m - PEG common pyrolusite coats fractures.	lim	Str	ser	Mod				APy		0.1		
EC16-37	42	45.11	MGRA		Pale light green intensely silicified HW granitic unit to Violet vein below; sericite as thin foliation partings and ghost relic equigranular granitic quartz feldspar texture; fractures coated with limonite and well defined dendritic textured pyrolusite. 44.4 - 45.11 m broken zone with 4 - 6 mm quartz stock work cutting MGRA at various angles to core axis; 1.5 cm3 white quartz fragment @ 44.6 m.	lim	Str	ser	Str								
EC16-37	45.11	46	QV		Violet vein target intersection, milky white massive QV with bright orange limonite on fractures; local pitted pyrite cube shapes --> boxwork texture all rusty with pyrite concentrated near wall rock contacts; fine grained metallic pyrite within totally rusty FeOx pyrite cube - secondary pyrite formation. 45.8 - 46.0 m - e cm chips of intensely broken QV plus 30% wall rock at lower contact.								EPy	2 APy	2		
EC16-37	46	48.6	MGRA		FW to Violet vein; green rusty clay altered granitic footwall to violet vein with abundant sericite to white quartz and feldspar augen shaped porphyroblasts; moderately broken with intense FeOx limonite on fractures.	lim	Str	ser	Str								
EC16-37	48.6	50.29	MGRA		Speckled hematite flooded biotite quartz / feldspar equigranular granitic unit to end of hole; quartz "eyes" up to 5 mm locally.												
EC16-38	0	2.44	OVB		Casing												
EC16-38	2.44	7.2	MGRA		Pale pink weakly foliated quartz - feldspar - biotite Metagranite; biotite < mm books, local feldspar augens, trace epidote (replacing biotite?) fine grained, anhedral, pistachio. 5.50 - 6.10: hematitic brick red stain in interval with discontinuous pegmatite veins. Rubbly. Cut by trace dry / pyrite fractures, weathered??? < mm.	lim	Wk										
EC16-38	7.2	11.15	MGRA		Brick red oxidized and cut by ~4/ m limonitic FeOx fractures quartz - feldspar - biotite metagranite. Weakly foliated, quartz and feldspar clasts up to 5 mm, matrix punky --> sericite + FeOx. Biotite --> sericite locally. Quartz - feldspar augen standout in oxidized matrix. At 10.15: gougy fracture (fx?) with dark green MGRA selvage --> sericite?	lim	Mod		ser	Mod							
EC16-38	11.15	12.35	MGRA		Grey green quartz - feldspar - biotite (--> sericite) METAGRANITE; sericitized between 1-2 mm quartz veinlets (15 / m). Patchy reddish tinge in variably altered intervals.Pervasive silicification (smooth core) with pits in quartz veins --> feldspar or cb dissolved? Discontinuous limonite fractures. Red oxidized sulfide fine grained, clots trace.	lim	Wk		ser	Mod			EPy		0.1		
EC16-38	12.35	16.9	MGRA		Red quartz - feldspar - biotite Metagranite, patchy seritized (shiny bluish grey) along dry fractures (1 / m). 14.75 - 15.25: 2% 2 mm pits, lined up within foliation, feldspar phenocrysts --> sericite? including 14.36 - 14.56 sericite + silicification of FW of dry fracture. Sericite fracture surfaces on rubbly core in lower 30 cm.	lim	Mod		ser	Mod							
EC16-38	16.9	18.09	MGRA		Green grey quartz - feldspar - sericite Metagranite. Matrix pervasively sericitized (silky). Biotite absent forming pits locally. Lionitic fractures ~ 5 cm apart along core axis (rubbly). Local quartz vein fragments, feldspar 2 m white and dusty 15% --> spotted.	lim	Mod	ser	Mod								

Core number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-38	18.09	18.39	Other		PEG - grey quartz vein (pegmatitic), quartz > pink feldspar. Rubbly. Limonitic fractures. Minor pyrolusite fine grained, selvages strongly limonitic MGRA where still stwvk to quartz rubble. Lower 10 cm possibly caved.												
EC16-38	18.39	19.43	MGRA		Orange - tan well foliated quartz - feldspar - biotite Metagranite; biotite fresh fine grained books. Strongly fractured and rubbly. Matrix with fine grained sericite.	lim	Mod	ser	Mod								
EC16-38	19.43	19.9	MGRA		Pink and grey mega-crystic k-feldspar + quartz PEGMATITE vein. Limonitic fractures throughout. Trace hematitic (dark grey with deep red streak) in fractures within k-feldspars. 5% limonitic pits between (b/t?) crystals.	lim	Wk										
EC16-38	19.9	22.86	MGRA		(19.90 - 20.30 m) - fault - Dark orange brown FAULT gouge, disaggregated quartz - feldspar - biotite MGRA, friable and oxidized. Biotite fresh. (20.30 - 21.40 m) - MGRA - Orangish grey Quartz - feldspar - biotite METAGRANITE. Rubbly fault material locally intact. Strong limonitic fractures throughout. Biotite fresh. Matrix variably sericite and clay altered. (21.40-22.86 m) - fault - Orange brown FAULT gouge, quartz - feldspar - biotite schist rubble strongly oxidized. Local clay gouge.	lim	Str	ser	Tr								
EC16-38	22.86	25.75	MGRA		Grey brown oxidation + rubbly. Quartz - feldspar - biotite METAGRANITE. Biotite 1 mm books, altered / weathered dark brown, not forming foliation. Rock moderately foliated, deformed by biotite partings + feldspar. Core rubbly, lost core. Limonite fractures.	lim	Str					APy		0.1			
EC16-38	25.75	26.97	QV		Light grey and orange Quartz Vein; Violet vein, massive quartz with limonitic fractures +/- pyrolusite throughout, pyrite as 2 mm cubes and tabs within quartz, 0.5%, MGRA WRI wispy and blocky --> sericite with feldspars --> illite? (not clay). Lower 20 cm pitted, spongy quartz, galena 2 mm clots locally with pyrite.							EPy		0.5	Gn	0.1	
EC16-38	26.97	28.4	MGRA		Orange - grey quartz - feldspar - biotite Metagranite, strongly oxidized with pervasive sericitization. Possibly weakly silicified but no veinlets.	lim	Mod	ser	Mod				EPy		0.1		
EC16-38	28.4	29.15	MGRA		Pervasively fractured + oxidized quartz - feldspar - biotite Metagranite, grey and orange, fractures limonite, foliation weakly developed but discontinuous. Biotite oxidized but non-foliated 2 mm books. Include rubble 28.9-29.1 m. Pyrite, euhedral, cubes oxidized.	lim	Str					EPy		0.1			
EC16-38	29.15	37	Other		QFS - Grey - orange patchily oxidized moderately foliated quartz - feldspar - biotite SCHIST, biotite defining foliation ~ 10 degrees TCA, wavy with quartz + feldspar lenses between (b/t???) 1 mm spacing. Crenulation fabric, 1 cm spacing between foliation. Pyrite oxidized cubes possibly associated with 10 - 20 / m limonitic fractures. 50 - 80 degrees tca. Locally with minor carbonate. @ 34.60: carbonate fracture fill, oxidized, minor oxidized pyrite.	lim	Mod					EPy		0.5			
EC16-38	37	47.24	Other		QFS - Grey moderately foliated quartz - feldspar - biotite SCHIST; biotite fresh and defining 2 mm spaced discontinuous foliation. Pyrite throughout, fine grained, euhedral, cubes oxidized. Cut by weakly limonitic fractures, locally intense --> rubbly core (46.8 - 47.20 m). Minor purplish blue grey cordierite fine grained, rounded within felsic foliation. Crenulation variably developed (kinks in foliation).	lim	Wk					EPy		0.5			
EC16-38	47.24	52.93	Other		QFS - Grey quartz - feldspar - biotite SCHIST, moderately foliated, patchily oxidized. Pyrite as 1-2 mm cubes throughout. 50.29 - 50.89 m: strongly oxidized along set of fine limonite fractures, oxidized pyrite cubes within fracture fill, 30 - 40 degrees tca with 2 cm sericite halos.	lim	Mod					EPy		0.5			
EC16-38	52.93	54.56	MGRA		Pink - grey quartz - feldspar - sericite Metagranite dyke. Upper contact 8 degrees tca, sharp. Foliated parallel to crenulation fabric in above schist. Compositional quartz - feldspar vs quartz - feldspar - sericite bands folded, AP ~ 20 degrees tca. Cut by limonite fractures, 2 / m.	lim	Wk	ser	Mod				EPy		0.5		
EC16-38	54.56	63.63	Other		QFS - (54.56 - 54.71) - FAULT - gouge fine rubble, fragments of sericitized schist. (54.71 - 63.63 m) - Grey moderately foliated quartz - feldspar - biotite SCHIST, foliation crenulated weakly defining 1 cm spaced foliation / fabric. Pyrite isolated 2 mm cubes, oxidized. Sericite within matrix, fine grained and patchy. Cut by 2-3 / m limonitic fractures. 20 - 40 degrees tca. Quartz sweats / veins parallel to foliation, folded finely, pinch and swell or disagg'd. Quartz - feldspar lenses / augens up to 1 cm uncommon. @ 62.85: folded quartz seg. 5 mm with limonite fractures. Selvages sharp. Upper contact with folded / disagg'd quartz - feldspar dykelets (5 mm) + tabs of oxidized pyrite.	lim	Wk	ser	Tr				EPy		0.5		0.1
EC16-38	63.63	66.83	Other		(63.63 - 63.83 m) Fault - Oxidized orange gouge, fragments of quartz - feldspar - biotite schist, angular with pyrolusite coatings. (63.83 - 65.00 m) -QFS - Rubbly strongly fractured core, competent interval with in fault. Strongly oxidized punky quartz - feldspar - biotite - SCHIST. Sericite throughout matrix Pyrite locally as fine grained cubes. Trace hematite as tabular aggs - replace lithic???? fragments ? (65.00 - 66.75 m) - Fault - rubble, gouge and lost core (only ~ 10% recovery). Strongly oxidized gouge with angular fragments of quartz - feldspar - biotite schist.	lim	Str	ser	Mod				EPy		0.1		
EC16-38	66.83	69.8	Other		Orangish dark grey quartz - feldspar - biotite SCHIST, biotite defining ~ 2mm spaced foliation in turn??? crenulated defining second fabric (~60 degrees TCA = older foliation, ~ 20 degrees TCA = younger foliation). Locally low angle foliation dominant. 68.5 - 67.8: Limonitic fractures include low angle tca, rubbly. Pyrite fine grained in aggs of subhedral oxidized crystals. Rare green 5 mm xeno fragments?? --> sericite. Upper 5 cm sericite - pervasive. Interval contains more biotite (~15% bs 5-10%) compared to above qfs, foliation better defined. E.O.H.	lim	Wk	ser	Wk				EPy		0.5		
EC16-39	2.25	13.41	MGRA		Pink grey hematitic moderately foliated quartz - feldspar biotite Metagranite, Trace pyrite oxidized, fine grained, cubes. Biotite 1 mm flattened books, disseminated outside of foliation. Foliation defined by quartz - feldspar vs sericite (after biotite?) layers, 2-4 mm. Quartz - feldspar rounded 2 mm porphyroblasts. Sericite throughout in matrix. 3.8 - 4.0 m: 2 cm quartz and coarse grained biotite + k feldspars foliaform sweat with diffuse boundaries. 8.0 - 8.15: pitted 2 mm fracture with 3 cm sericite halo. 10.67 - 12.19: rubbly zone with lost core. Limonitic fractures 1/m.	lim	Wk	ser	Mod				EPy		0.1		
EC16-39	13.41	14.64	MGRA		Pale tan quartz - feldspar - biotite Metagranite, bleached and sericite altered, 1 mm biotite books throughout 10%, fresh, weakly drawn into foliation. Limonitic fractures 4 / m. 40 degrees tca.	lim	Tr	ser	Mod								
EC16-39	14.64	16.2	MGRA		Pale grey green quartz - feldspar - biotite Metagranite, sericite concentrated in 5 mm fol bands silky and fine grained, interval cut by quartz veinlets and dry fractures stair stepping and limonitic 3 / m. Biotite fine grained, euhedral, disseminated books 5-10%, oxidized in lower 20 cm.	lim	Tr	ser	Mod				EPy		0.1		
EC16-39	16.2	17.07	MGRA		(16.20 - 16.76 m) - Fault - rubbly caved core fragments, sericite altered grey green Metagranite, moderately oxidized along foliation. (16.76-17.07 m) - Grey green weakly foliated, quartz - feldspar - sericite Metagranite, cut by sheeted veinlets 5 / 30 cm. 0.5% fine grained, oxidize, euhedral pyrite within matrix and strongly oxidized within veinlets. Rubbly with pyrolusite on fracture surfaces.	lim	Mod	ser	Str				EPy		0.5		
EC16-39	17.07	18.1	MGRA		Grey green patchy oxidation quartz - feldspar - sericite Metagranite, minor fine grained biotite, well foliated possibly shear fabric.	lim	Mod	ser	Str					EPy		0.1	
EC16-39	18.1	20.05	MGRA		(18.1 - 20.3 m) Rubbly oxidized orange grey green quartz - feldspar Metagranite, strongly fractured (limonite), minor clay on fractures, moderate sericite throughout. Foliation moderately developed, 1-2 mm quartz porphyroblasts. Feldspar - quartz augen fractured--> shearing / deformation? (19.65-20.05 m) - Grey green oxidized quartz - feldspar - sericite Metagranite, moderately foliated, biotite oxidized, foliation quartz / feldspar layers 5 mm separated by fine sericite partings with wavy boundaries.	lim	Mod	ser	Mod								
EC16-39	20.05	21.34	MGRA		(20.05 - 20.30 m) - fault - Rubble and lost core, cavings. Oxidized and sericite MGRA as above. (20.30 - 21.34 m) - Buff grey green augen textured quartz - feldspar - sericite Metagranite, fine grained, equigranular quartz - feldspar matrix with sericite bands and 10% 2-4 m quartz + feldspar phenocrysts locally sigmoidal. Rubbly with limonite fractures.	lim	Wk	ser	Mod				EPy		0.1		
EC16-39	21.34	25	MGRA		(21.34 - 22.86 m) - Fault - rubble and lost core. Oxidized MGRA fragments. (22.86 - 25.00 m) - Grey green sericite and oxidized quartz - feldspar MGRA, sericite after biotite? in fold layers 3 mm. Rubbly cut by limonitic fractures, ~ 20 / m? discontinuous structure.	lim	Str	ser	Mod								
EC16-39	25	28.96	MGRA		Red - brown moderately foliated quartz - feldspar - biotite Metagranite, possibly xenolith or interval of more dirty biotite rich rock (subvole?). Biotite disseminated and foliated and as bands. Quartz - feldspar augen / porphyroblast fragments stand out in punky biotite rich matrix. Sericite throughout within phyllo-rich thin strips. But by network of limonite fractures, 15 / m include down core axis. Quartz - feldspar augen up to 10 mm rarity. (28.10 - 28.50 m) - sericite altered grey green interval, upper contact limonitized with kinken foliation, variably silicified cut by dry fragments and quartz / Fe - carbonate veinlet.												
EC16-39	28.96	29.75	MGRA		Dark grey green and orange Quartz - feldspar - biotite Metagranite, sericitized matrix, biotite books disseminated 1 mm fresh and oxidized. Trace hematite stain. Quartz augen up to 5 mm. Similar to above but with trace sericite. Lower contact 5 cm gouge.												
EC16-39	29.75	29.94	QV		Massive white quartz vein, gougy upper contact, cut by limonite fractures. Minor pyrite, chalcopyrite +/- galena.							EPy		0.1	Cc	0.1	
EC16-39	29.94	30.9	MGRA		Grey green foliated weakly?? + cut by sheeted quartz vein. Quartz - feldspar sericite Metagranite, altered in hanging wall of vein, matrix moderately to strong sericite, biotite books absent likely altered within matrix of silky fine grained sericite. Weakly silicified.	lim	Wk	ser	Str	Silicified - weak			EPy		0.1		
EC16-39	30.9	32.34	QV		Massive white quartz vein, 3% WRI in upper half strongly sericite Metagranite, euhedral pyrite within WRI and disseminated in quartz, galena 1-2 m cubes locally with thin pyrite rims. Cut by imonite fractures 15 - 20 / m. Lower contact faulted. Violet vein.	lim	Wk						EPy		0.1	Gn	0.1
EC16-39	32.34	35.53	MGRA		Grey green oxidized fine grained quartz - feldspar - sericite Metagranite, foliation washed out by sericite, 10% 2 mm quartz + feldspar augen, pyrite rare anhedral, oxidized. Cut by 5 / m limonite + carbonate fractures.	lim	Wk	ser	Str				EPy		0.1		
EC16-39	35.53	35.97	MGRA		Dark reddish grey augen textured Quartz - feldspar - biotite Metagranite. Fine grained foliation sericite + biotite + quartz feldspar matrix with 2-5 quartz augen porphyro crystals, 10%. Biotite 2 mm books weakly aligned with foliation 10%. Cut by 3 / m limonite + carbonate stringers. 40 - 50 degrees tca. Strong limonite + carbonate fractures near DH.	lim	Wk	ser	Mod								
EC16-39	35.97	36.27	Other		PEG - Dark grey pegmatite ? Quartz vein, foliation parallel, strongly sericite altered WR. Possibly thin dark green dyke unit as further down hole.	lim	Wk	ser	Str				EPy		2		
EC16-39	36.27	37.06	MGRA		Grey green quartz - feldspar - biotite Metagranite, sericitized + cut by --> quartz ~ 7 quartz veinlets. Veinlets quartz +/- k feldspar? +/- limonitic / Fe carbonate (late). Sericite strong near veinlets biotite altered / oxidized.	ser	Mod										

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-39	37.06	41.07	MGRA		Grey - green tan Quartz - feldspar - biotite Metagranite, quartz - feldspar augen 2-4 mm, biotite 2 mm books 15% throughout, locally foliated, fabric variably foliated (quartz feldspar + biotite + sericite bands; 3 mm). 39.9 - 40.5: cut by pitted fractures 1 mm variably sericite altered halos.	ser	Mod												
EC16-39	41.07	44	MGRA		Dark orange tan Quartz - feldspar - biotite Metagranite, 15 - 20% quartz + feldspar augen 2-4 mm, fine biotite 10%, foliation weakly defined by diffuse bands of quartz feldspar + sericite matrix, quartz feldspar augen weakly aligned with foliation. Cut by limonitic fractures 18 / m. Reddish dark grey Quartz - feldspar - biotite Metagranite, 5% quartz augen 2-5 mm (fine fractures / crystal facra??) 10% 1-2 mm biotite books throughout in fine grained quartz - feldspar + sericite matrix. Moderately defined foliation defined by quartz + feldspar + sericite bands / partings. Patchily oxidized, limonite / FeOx 10/ m. @ 47-47.20 m - dark green sericite matrix with biotite + quartz + feldspar fine grained, dyke? well foliated. Bracketed by quartz - PEG veins.	lim	Mod	ser	Mod										
EC16-39	44	47.37	MGRA		Dark pinkish grey Quartz + feldspar + biotite Metagranite, biotite minor fine grained fresh, foliation defined by subtle bands of quartz - feldspar and sericite matrix + crenulation of quartz - feldspar augen. Biotite weakly drawn into foliation. 50.70 - 52.0 m - Limonite fracture network, rubbly core, sericite pervasive in fine grained matrix, locally ??? core grey green. Silky. 52 - 53 m: curved? fracture with sericite halos, 7 / m, ~ 10 degrees tca. At 51.93: oxidized 5 mm foliation band - biotite rich? pyrite --> limonite.	lim	Mod	ser	Mod										
EC16-39	47.37	55.85	MGRA		Reddish grey Quartz - feldspar - biotite Metagranite, moderately foliated with distinct quartz augen within fine grained quartz feldspar + sericite matrix. Biotite 10% fine grained books, weakly foliated. Silky fine grained sericite throughout. Limonite fractures, 10 /m, network / rubbly core. Pink grey Quartz - k feldspar Metagranite, minor fine grained biotite, sericite within fine grained quartz - feldspar matrix, 2-3 mm quartz + feldspar porphyroblasts 15%. Cut by limonite fractures at low angle TCA, 8 / m. Hemattic stain weak.	lim	Wk	ser	Str										
EC16-39	55.85	56.69	MGRA		Dark grey - green with reddish hue; Quartz - feldspar - biotite sericite Metagranite, dirty phase with ++ phyllosilicates, patchy hematite staining, less competent than MGRA. Biotite coarse grained weakly within foliation but appears to overprint, foliation moderately defined by quartz - feldspar augen, bands and sericite partings. Earthy brown material on fractures down hole 10 / m - 25 degrees tca. Irregular carbonate stringers at low angle tca @ 68 and 60.7m. Sericite partings throughout matrix, silky, forming 5 mm halos to pegmatic veins. E.O.H.	lim	Str												
EC16-40	0	3.45	OVB		Casing to 10 feet; Ground misc rounded rubble including one 3 cm3 QV - not sampled.	lim	Str												
EC16-40	3.45	11.6	MGRA		Pale orange pink poorly foliated equigranular quartz - feldspar granite; clay altered feldspars, biotites gone to sericite; intense surface oxidation with limonite and mn coating fractures; weakly broken core up to 10 m. Fault - 10.0 - 11.6 m - Banded green sericite up to 4 cm wide in granitic (MGRA) unit with green clay gouge along sharp fault plane 15 degrees TCA 2 cm wide at 10.55 m; interval is broken.	lim	Str			Clay alteration - moderate									
EC16-40	11.6	25.6	MGRA		Patch pink and green equigranular granitic interval (MGRA) with orange limonite on fractures; well developed dendritic pyrolusite interval is weakly foliated at low angle to core axis. (16.0 - 25.60 m) Fault - Zone of intensely broken and clay rich granitic unit (MGRA), patchy hematitic with abundant clay filled fractures. (16.0 - 16.40 m) - Zone of gouge with 40% < 2 cm chips of limonitic granitic unit. (16.40-21.30 m) - Faulted clay rich hematized granitic interval with more competent sections of fractured core; 16.6 --> 16.8m < 1 cm open space cavity fracture with drusy quartz and rusty pyrite blebs. (20.30 - 20.60 m) - sub-interval of light wavy pink coarse feldspar PEG without the quartz vein yet interval cut by 8 sub parallel - 68 degrees tca x-cutting, < 1 mm wide limonitic fractures (trace pyrite). (21.30 - 25.60 m) Major fault - pink hematite rich granite unit with abundant clay gouge and black manganese. 1.0 m lost core between 23 and 24 m.	lim	Str	hem	Mod	Clay alteration - weak. MnO - strong locally.	APy		0.1						
EC16-40	25.6	27.4	MGRA		Pink hematitic quartz rich granitic intervals with common slickensided fracture planes; foliation defined by quartz rich layers separated by thinner 1-3 mm sericite rich layers.														
EC16-40	27.4	30.48	MGRA		Silicified green grey hanging wall to Violet Vein, interval is intensely silicified with prominent sericite bands and cut by > 15 / m white quartz stringers / or dirty FeOx/ Mn coated open space cavities (in crude fracture set) - drusy quartz infill of local Mn coated open space.	lim	Str	ser	Str		APy		0.1						
EC16-40	30.48	32.7	QV		Violet vein target intersection; milky white massive quartz with bright orange limonitic fractures; sericitic wall rock with sheeted white quartz stringers between 31.8 - 31.9 m; 32.0 - 32.4 m.	ser	Str				EPy		1 APy		1.5 Apy < 2% locally.				
EC16-40	32.7	36.6	MGRA		Green silicified foot wall stwk zone to violet vein. Sericite rich altered granitic unit 20 / m white quartz stringers diminishing down hole and concentrated.	lim	Str	ser	Str		APy		0.5		Apy less than 1%.				
EC16-40	36.6	40.2	MGRA		Quartz - feldspar - biotite Metagranite, hematitic and locally coarse grained texture, quartz + feldspars rounded crystals up to 5 mm across; foliation weakly developed.	hem	Str				APy		0.1						
EC16-40	40.2	46	MGRA		Green sericite altered Metagranite with white clay along common fracture planes at low angle to core axis; Zones of concentrated phyllosilicated (biotie --> sericite) up to 3 cm wide defining foliation 12 - 15 degrees tca. PEG (clear quartz + salmon k feldspar coarse grained crystals) along foliation? 42.4 - 42.6m, 43.2 - 43.7 m, 45.1 - 45.9 m. 45.1 - 45.9 m - 5 cm wide zone of locally brecciated sericite rich MGRA bounded by sharp slip plane 10 degrees tca with 4 cm PEG vein on hanging wall side of slip plane; common limonite and clay around fractured PEG vein + Mn.	ser	Str			Clay alteration - moderate	EPy		0.1						
EC16-40	46	59.85	MGRA		Pale green (mottled pink) Metagranite silicified interval that is locally pitted with 2 x 3 mm open space cavities (?plucked out feldspars?) at start of interval. Broken core between 51 -> 54 m with intense FeOx and local 2 mm thick white clay coating fractures; common Mn. 56.00-56.40 m - rusty broken local fault zone with intense FeOx, minor clay; common pyrolusite coats fractures (with limonite / goethite up to 4 mm thick).						EPy		0.1 APy		0.1				
EC16-40	59.85	61.6	MGRA		Pale green / orange Metagranite, intense sericite alteration, highly fractured zone of 3 pink / white PEG dykes (at 60.3, 60.4 and 60.5 m) with clearly cross cutting later thin quartz stringers + very fine grained grey sulphide + rusty pyrite cubes in quartz within PEG dyke; 60.9 --> 61.2 m interval cut by low angle grey quartz and open space fine grained pyrite along foliation.	lim	Str	ser	Str							Grey metallic sulphide - Arsenopyrite? < 1 %.			
EC16-40	61.6	65.53	MGRA		Pale green metagranite with abundant irregular bright orange limonitic fractures throughout a sericite rich granitic uni; faulted clay rich especially between 62.5 - 63.8 m with white clay and limonite showing small scale movement along foliation; trace very rusty pyrite cubes at 65.1 m. E.O.H.	lim	Str	ser	Str	Clay altered - moderate									
EC16-41	0	1.52	OVB		Casing to 1.22m; ground core rubble with 50% white quartz vein ?PEG dyke pieces up to 3 cm3, rusty with 1% pyrite fine grained blebs. s	lim	Str				APy		1						
EC16-41	1.52	5.8	MGRA		Fault (1.52 - 2.90 m) - Yellow / pale green gouge rich shattered sericite altered Metagranite unit (with up to 40% yellow clay gouge), intense FeOx filling fractures up to 3 mm thick; broken contacts. (2.09 - 5.80 m) - Yellow orange sericite silky green coloured folited Metagranite; intense iron oxide with abundant Mn of fractures; moderately broken interval. 3.0 - 3.25 m - Zone of sheeted < 4 mm quartz stringers. 5.4 - 3 mm quartz strong along foliation. Pervasive surface oxidization of granitic unit.	lim	Str	ser	Mod										
EC16-41	5.8	12.85	MGRA		Banded orange and purple hematitic patches Metagranite; consistently foliated with silky green sericite and fine grained granitic texture of feldspars locally altered to clay. Quartz locally augen shaped; 80 cm wide hematite bands with local open space cavities rusty and Mn coated pitted appearance along foliation.	lim	Str	hem	Str										
EC16-41	12.85	15.3	MGRA		+ PEG; pale green / pinky orange silicified metagranite unit cut by > 11 thin discontinuous pegmatite dykes / quartz stringers plus open space cavities and pits along foliation as alteration to distinct contact to unit below.	lim	Str	sil	Str	Hemaitite - strong, Sericite - strong.	APy		0.1						
EC16-41	15.3	20	MGRA		(?qf -->sS?) distinctly different green brown "dirty" looking foliated (yet granitic protolith)? --> older orthogneiss regional unit? Upper contact is intrusive with > 5 cm clear fractured quartz vein sub parallel core axis- (is a PEG as looks very similar to PEG up hole); unit is foliated but difficult to measure and rare locations of ?crenulation cleavage; unit has occasional (2 x 1 cm elongate quartz clasts.						APy		0.5		Apy < 1 %				
EC16-41	20	35.3	MGRA		Purple / red green hematitic foliated Metagranite, locally augen textured with thin sericite or hematite partings, quartz augens up to 1.5 cm long x 5 mm wide along foliation. 22.2 --> 22.5 m broken clay gouge rich interval with intense concentration of silky green sericite and limonitic fractures . 22.90 3 < 2 cm wide PEG dykes along foliation. 27.3 - 3 cm wide clear quartz + feldspar PEG dyke along foliation. (27.40 - 35.30 m) Fault - Clay rich banded purple and green (hematite / serticite) MGRA with > 10% white clay along fractures and foliation. Interval is very broken and (soft crumbly). 30.2 - 30.5 m - milky white quartz stwk zone in sericite altered sheared metagranite. 31.2 - 32 m intense gouge rich zone. Pink banded foliated hematitic Metagranite unit with local pitted open space cavities along foliation and minor (< 5 cm) clay slis. PEG dykes cross cut and sub parallel to foliation between 36.75 - 37.05, 37.7, 38.15 - 38.7 m.	hem	Str	ser	Mod	Strong clay alteration.	EPy		0.1 APy		0.1				
EC16-41	35.3	39.7	MGRA			hem	Mod				APy		0.1						
EC16-41	39.7	43.5	MGRA		Hanging wall to Violet vein; pale silky green sericite rich metagranite with feldspars altered to clay, abundant FeOx faulted zone cut by > 10 / m white quartz stringers sheeted locally (and truncated offset mm scale as well), 10% gouge to 41.5 m At 43.3 m gouge fault - 15 degrees tca.						EPy		0.1 APy		0.5 Apy < 1%				
EC16-41	43.5	46.2	QV		Violet vein; milky white (tight) vein with very little open space yet quartz has internal grey < 2 mm quartz crackle texture; fractures coated with orange limonite. 45.2 --> 46.20 m - intensely shattered core into < 2 cm2 . QV rusty framgens (no host rock mixed in).	lim	Mod				EPy		0.1 APy		1				
EC16-41	46.2	47.8	MGRA		Foot wall to Violet vein; Pale green intense sericite granitic unit with stock work of deformed milky white stringers at various angles to core axis (+ lenses and discontinuous quartz patches) cross cutting the foliation of the granitic host; clay after feldspars and limonite coats fractures; local pyrolusite.	ser	Str				EPy		1 APy		0.1				
EC16-41	47.8	60.96	MGRA		Red hematite coarse grained Metagranite, becoming finer grained down hole. 49.4 m - 7 cm quartz and salmon pink coarse feldspar PEG dyke x-cuts foliation. 51.25 m - 1 cm PEG. 51.25 - 53.8 m - hematitc MGRA with very thin wispy discontinuous tan / orange carbonate along foliation. 53.8 - 57 m - noticeable biotite clots "overprinting well foliated locally hematitic granite unit --> gradational contacts. PEG dykes - 52.10, 53.5, 55.10, 55.77, 56.53, 56.90, 57.50 and 59.85 - 60 m, most parallel to foliation, others x-cut. 59.00 - 60.56 m, pale green granitic nit cut by earthy orange brown ankerite carbonate fracture fill. E.O.H.	hem	Str	carb	Mod	Carbonate - moderate locally.	APy		0.1						
EC16-42	0	4.57	OVB		10 feet casing; 20 cm rounded rubble of hematite MGRA metagranite with 10% QV pebbles < 2 cm2 with feldspar (PEG).														

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-42	4.57	28	SCH-i		(4.57 - 19.81 m) Fault - with brown / green clay gouge between 4.57 - 6.0 m then intensely oxidized broken < 10 cm x 4 cm fragments of dark green intermediate? schist well foliated with 2 mm quartz in a dark green chloritic ground mass; trace amounts of 2 mm rusty pyrite cube along folia; interval cut by wispy white carbonate veinlets x-cutting and along foliation; abundant limonite and pyrolusite on fractures. (19.81 - 28.00 m) - Dark green chlorite - quartz SCHIST - intermediate, possibly mafic?; very broken with 10% gouge zones. 23 - 24.5 m dark brown SCH-i interval with abundant carbonate along foliation and as discontinuous fine wispy veinlets and specs (after feldspar?); local trace amounts of 2 mm euhedral pyrite cubes.	carb	Mod	lim	Str			EPy	0.1				
EC16-42		28	61	SCH-i	Major fault; green to tan brown fault gouge with variable amounts of clasts of SCH and local 4 x 2 cm fragments of broken quartz in gouge. 28.0 - -> 33.5 m green sericite / chlorite gouge. 33.5 -> tan brown gouge with common discontinuous lenses of broken white quartz - irregular shaped but generally rounded fragments in a gouge rich (hederolithic ? matrix; possible hematitic bx fragments as well as wore schistose sericite fragments). Most fragments of host and quartz are rounded with milled edges with rare angular 2 cm2 rotated quartz sericite clasts at 43.75 cm); most quartz fragments react to acid (- pervasive carb). 43.9 - 46.3 m gouge rich interval with bands of purple hematitic very sheared and rounded clasts of possible MGRA? in gouge and SCH chlorite matrix. (52.55 - 61.00 m) - fault breccia continued yet more distinct and competent SCHIST (chlorite rich with quartz sweats) in a green brown clay rich matrix; local purple hematite staining. 56.0 - 56.3 m banded chlorite rich competent SCH interval with < 1 cm wide quartz / carbonate layers separated by wavy deformed chlorite layers; layering is parallel tca.	carb	Mod	lim	Mod								
EC16-42		61	61.75	SCH-i	Pale green sericite rich fault breccia with gouge plus < 2 cm2 fragments of quartz rich / sericite altered ??HW to ?Violet Vein?? below; matrix is calcareous and very sericite rich. 61.3 -> 61.75 m pale green very sericite rich interval with green / tan gouge.												
EC16-42	61.75	61.9	QV		Grey and white QV with thin fractures with < 1 mm wide ankerite fracture filling; pale blue / white patches of carbonate within vein, ?? possible faulted violet vein??							APy	0.5	Gn		0.1 Apy < 1%	
EC16-42	61.9	61.95	SCH-i		Pale green fault gouge FW? to QV above with abundant sericite yet 90% clay gouge.												
EC16-42	61.95	63.3	SCH-i		Medium green chlorite rich foliated SCHIST ?intermediate yet 20% clay gouge; layers of schist has lensoidal clots / augen of white carbonate along foliation; with rare 2 mm cubic clots of pyrite.	carb	Mod					EPy	0.1				
EC16-42	63.3	63.7	SCH-f		Very quartz rich light cream / white striped / layered interval very fractured with abundant white carbonate with green gouge on each margin; schistose and sheared.												
EC16-42	63.7	71.9	SCH-i		(63.70 - 70.7 m) - Dark brown (green) orange very oxidized sheared augen / locally phacoidal texture SCHIST? unit; intense iron oxide / goethite to earthy black Mn stained faulted bx fragments to 65.5, them more competent layers. 63.70 - 65.5 m Gouge rich bx broken interval. 68.6 - 69.4 m Strong phacoidal texture, trace cordierite augens. 69.4 - 70.25 m green chlorite rich SCH-i layer broken with a soapy feel. 70.3 m - 2 mm dull black graphite coating fractures. (70.7 - 71.9 m) - Fault bx - Dark green gouge with < 2 cm2 bx fragments of green schist-i orange 2 mm feldspar fragments in gouge.	carb	Mod	lim	Str								
EC16-42	71.9	83.82	SCH-i		Light green foliated SCHIST with common intervals of phacoidal texture, iron oxide along wavy foliation shear planes and very common < 3 mm pale blue white cordierite augens in a finer grained matrix of chlorite. 81.8 m - 2 mm dull black graphitic slip surface; 83.2 - 83.82 - strongly broken chlorite schist to E.O.H.	lim	Str					EPy	0.1				
EC16-43	0	2.8	OVB		Casing, no core recovered.												
EC16-43	2.8	7.4	MGRA		Grey green moderately foliated quartz - feldspar - biotite Metagranite, matrix strongly sericite and carbonate altered, quartz crystal fragments with carbonate after feldspars. Patchily oxidized, clay and limonite fractures ~ 12 / m.	carb	Str	lim	Mod								
EC16-43	7.4	11.97	MGRA		Light grey - green; patchily orangish quartz - feldspar - biotite Metagranite, as above but cut by sheeted quartz veinlets - 60 degrees tca, with diffuse boundaries (silica flooding), also set of oxidized carbonate veinlets parallel, discontinuous / brxing MGRA (15 / m) Biotite patchy weakly foliated books fine grained < 5 %. Vein zone, 4 / m.	carb	Mod	sil	Mod			EPy	0.1	Gn		0.1	
EC16-43	11.97	12.19	QV		Set of grey quartz veins surrounded by veinlet network + silicified WR. Trace galena, pyrite + chalcopyrite within veins. Trace pyrite in selvages (bleached + sil).							EPy	0.1	Gn		0.1	
EC16-43	12.19	12.8	MGRA		Light grey - green; patchily orangish quartz - feldspar - biotite Metagranite, as above but cut by sheeted quartz veinlets - 60 degrees tca, with diffuse boundaries (silica flooding), also set of oxidized carbonate veinlets parallel, discontinuous / brxing MGRA (15 / m) Biotite patchy weakly foliated books fine grained < 5 %. Vein zone, 4 / m.	carb	Mod	sil	Mod			EPy	0.1	Gn		0.1	
EC16-43	12.8	20.9	MGRA		Dark green grey quartz - feldspar - sericite - biotite Metagranite, banded at 1 cm scale (quartz - feldspar vs feldspar - sericite), foliation moderately deformed by sericite (after silica flooding?) layers. Texturally variable with competent layers with quartz eye like fragments, feldspar crystals. Silicified throughout. Bleached halos within sheeted vein intervals (ex. 19.5 - 20.1m). Cut by quartz veinlets 3 / m + Fe - carb ~ 5 / m. Quartz appears to bx / x-cut Fe carbonate 1/ m gouge limonitic fractures with 2 cm oxidized halos in sericite bands of matrix. 19.0 - 20.5: crenulated foliation + bands with cleavage sub parallel to core axis. Crenulations fractured by later fine grained quartz stringers.	sil	Mod										
EC16-43	20.9	28.86	MGRA		Dark green grey quartz - feldspar - sericite Metagranite, well defined layering of quartz - feldspar rich vs sericite + chlorite? rich parallel to foliation (15 degrees tca). Darker layers have 1 m quartz feldspar clots 5% - relict phenocrysts? Foliation and layers are crenulated + folded with AP's ~ 60 degrees tca. Possibly more subvolcanic or dykes heavy in protolith. 26.5 - 27.25: 8 Fe carb stringers @ 65 degrees tca. At 24.38: gougy oxidized fracture, bleaching slightly 23.7 - 24.4 m. Reactivated fault zone? Lower contact marked by 15 cm very fine grained quartz rich interval.	carb	Wk	sil	Mod			EPy	0.1				
EC16-43	28.86	29.35	MGRA		Dark grey green quartz - sericite Metagranite / sub volcanic with 10% coarse grained quartz augen. Contact with upper unit sharp, 70 degrees tca. Dark green sericite + chlorite? matrix with quartz augen, looks like a porphyry. Lower 10 cm sil ++. Cut by carbonate - Fe stringers.	sil	Mod										
EC16-43	29.35	29.55	QV		Coarse grained blocky quartz vein, heavily pitted with minor galena.							Gn	0.5				
EC16-43	29.55	30.95	MGRA		Dark grey green Quartz - sericite Metagranite / sub volcanic as 28.86 - 29.35 m. Cut by scattered quartz veinlets. Gougy + fractured. Foliation sub parallel tca in lower 50 cm. Less silicified then above - later weathering along fault gouge? at 30 m.	sil	Wk										
EC16-43	30.95	31.37	QV		Blocky grey quartz vein, with altered feldspar crystals? possibly PEG. Minor galena with more ~ 0.5% trace fine grained dark grey sub-metallic? sulfide.							Gn	0.1				
EC16-43	31.37	34.6	MGRA		Dark green - grey quartz - sericite Metagranite / sub volcanic, well layered at cm scale - 15 degrees tca. Quartz - feldspar? clots sub rounded 1 mm, ~2% locally higher (within layers). Pervasive sericite alteration within matrix, silky. Silicified throughout (smooth and glassy). Cut by 15 / m quartz veinlets - 80 degrees tca, locally in stockworks / bxing. With 5% 1-2 mm white calcite crystals.	sil	Mod										
EC16-43	34.6	39.11	MGRA		Dark grey green patchily oxidized quartz - sericite + biotite MGRA, biotite patchy, fine grained at edges of quartz - feldspar vs sericite bands. Cut by fine limonite stringers 4 / m at 80 degrees tca. With 5% quartz feldspar sub rounded relict phenocrysts? Pyrite fresh disseminated blebs < 1 mm.	lim	Wk	sil	Mod			APy	0.5				
EC16-43	39.11	41.6	MGRA		Light grey quartz - feldspar - biotite banded Metagranite, bands 5 mm deformed by sericite vs quartz - feldspar rich layers. Biotite fine grained books weakly within foliation but more isotropic from side of core. Biotite ~ 4%, absent in veinlet halos. 2 stringers as above interval (39.3 - 39.5 m). Pyrite fresh, anhedral blebs, fine grained.	sil	Mod					APy	1				
EC16-43	41.6	42.3	MGRA		Light grey quartz - sericite banded Metagranite, biotite absent / patchy.	sil	Mod					APy	0.1				
EC16-43	42.3	42.6	MGRA		Brecciated (quartz + carbonate) metagranite, silicified, 1% pyrite, minor chalcopyrite + galena, along bxing stringers. Pyrite pale, anhedral blebs.	sil	Str					APy	0.1	Gn		0.1	
EC16-43	42.6	46.1	MGRA		Grey - green quartz - feldspar +/- biotite metagranite, cut by quartz - carbonate stringers and veinlets throughout, 60 degrees tca, ~ 10 / m. Clots 1 mm of fresh pyrite trace within quartz / feldspar matrix. Sericite within bands in MGRA forming foliation, weakly deformed, 20 degrees tca. At 44.60: limonite gouge in rubbly core fractures, en echelon Fe - carbonate veinlets as sheeted in interval.	sil	Mod					APy	0.1				
EC16-43	46.1	46.7	MGRA		Grey silicified Metagranite breccia, jigsaw texture, clasts diffuse boundaries due to silica flooding, matrix quartz + massive white mineral, looks like calcite without reaction, pyrite in clots of anhedral crystals within bx matrix, ?????? locally of fine grained galena. Trace chalcopyrite? solo belbs, very fine grained.	sil	Str					APy	1	Gn		0.1	
EC16-43	46.7	47.7	MGRA		Dark grey quartz - sericite MGRA / sub volcanic, 10% quartz rounded crystals in fine grained sericite + quartz - feldspar matrix. Foliation weakly defined appears more massive than above. Cut by cream colored quartz - carbonate veinlets (7, 40 degrees tca).	sil	Wk										
EC16-43	47.7	48.6	MGRA		Light grey green altered (bleached + silicified) quartz - sericite - feldspar Metagranite, gougy contact with above. Texture blurred, quartz augen in fine grained quartz - feldspar - sericite matrix. Cut by swarm (~ 30) of Fe carbonate stringers.	lim	Mod	sil	Mod			APy	0.1				
EC16-43	48.6	53.75	MGRA		Grey green Quartz - feldspar - sericite - biotite Metagranite, weakly developed foliation, 5% quartz / feldspar augen, biotite fine grained books poorly oriented within foliation bands, 5%. Silicified throughout and stronger in stringer halos. Cut by 15 - 20 / m quartz +/- carbonate stringers + veinlets, biotite -> sericite in halos, locally with breccia texture. Minor purple - blue cordierite augen. Pyrite fresh within foliation bands, uncommon.	sil	Mod					APy	0.1				
EC16-43	53.75	60.15	MGRA		Dark grey green Quartz - sericite +/- biotite Metagranite, layered where not texturally destroyed, cm scale competent layers. Quartz veins parallel to foliation bands, 60 degrees tca, and a set of fine quartz - carbonate stringers ~ 70 degrees. Pyrite fine grained within foliation bands associated with veinlets (older quartz), trace galena again with older quartz veins. Silica flooding associated with veinlets + stringers obscures texture and associated with fine grained disseminated pyrite in matrix. Galena with veinlets.	sil	Mod					APy	0.5	Gn		0.1	
EC16-43	60.15	61.45	MGRA		Grey banded / weakly foliated quartz - feldspar - biotite Metagrainte, fresh pyrite disseminated, biotite fine grained 3-5% weakly aligned with foliation within bands.	sil	Wk					APy	1	Ccp		0.1	
EC16-43	61.45	62.46	MGRA		Pale grey (pinkish) silica flooded Metagranite, texture destroyed, pyrite in foliation? parallel masses of fine grained subhedral crystals 2%.	sil	Str					APy	2	Gn		0.1	
EC16-43	62.46	64.8	MGRA		Dark grey green banded quartz + sericite + biotite (minor) sub volcanic / metarinite, quartz - feldspar augen 5-10%. Relatively quartz - sericite matrix rich - sub volcanic / porphyritic phase? layers cm scale locally (quartz feldspar - rich), locally folded. Carbonate after feldspar ? blebs.	carb	Wk	sil	Mod								

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
EC16-43		64.8	71.2	MGRA	Light grey green Quartz- sericite metagranite, texture more washed out then above but appears more massive ~ plutonic. Pyrite fine grained within foliation bands (cm scale). 64.8 - 65.8 m: stronger silica incl. 69.80 - 70.0 m: Silica flooded zone cut by en echelon quartz + Fe carbonate veinlets, pyrite 1-2%, galena trace, fine grained, subhedral masses, very fine grained sulfide darkening patches. Stair stepping en echelon quartz - carbonate stringers. 70.10 - 70.15 m: as 69.8 - 70.0.	sil	Mod					APy		0.5	Gn	0.1		
EC16-43		71.2	73.15	MGRA	Orange grey brecciated and oxidized quartz - sericite / muscovite Metagranite cut by 15-20 limonite fractures + sericite fracture fill, minor quartz stringers, + pitted quartz - carbonate veins. Pyrite disseminated fine grained, oxidized rims.	lim	Mod	sil	Mod			APy		0.5				
EC16-43		73.15	80	MGRA	Light grey green massive looking texturally destroyed, locally with faint layers visible Metagranite; but by quartz carbonate veinlets, quartz stringers and limonite fractures. 74.50 - 75.10: oxidized interval centered on limonite and clay fractures + strongly pitted oxidized MGRA. 77.0 - 77.20: pitted oxidized limonite fractures + sericite zone, feldspar pitted, trace galena + 1% fine grained pyrite. Where visible texture is more porphyritic with 5-10% feldspar and quartz phenocrysts - 1 mm. Lower 75 cm bleached and stronger oxidation.	lim	Mod	sil	Mod			APy		0.5	Gn	0.1		
EC16-43		80	84.3	MGRA	Orange heavily oxidized and silicified Metagranite, quartz augen preserved in fuzzy oxidized and sericite altered matrix cut by series of quartz veinlets, limonite fractures 10 / m. Minor fresh pyrite but ~ 1% pits (oxidized pyrite? feldspars --> clay?). 10 / m fine Ge - carbonate stringers. 82.45 - 82.90 m: discontinuous irregular quartz veins --> brecciated zone, strong sil but weaker FeOx than rest of interval.	lim	Str	sil	Str			APy		0.5	Gn	0.1		
EC16-43		84.3	87.57	MGRA	Orange patchily but strongly oxidized Metagranite, cut by fine quartz veinlets + stringers of brittle, soft orange clay (esp. 85.5 - 86.0 m). Quartz augen reserved, matrix oxidized and altered (rough to touch). Oxidized clay? greasy when crushed. 86.20 - 86.60: limonite + clay fractured zone. Dark green silicified quartz - feldspar - sericite Metagranite, foliated with cm - scale layers, quartz - feldspar augen 5%, biotite oxidized. Foliated along layers. Disseminated pale pyrite with oxidation rims. Smoother than above --> not oxidized + clay altered? more silica ? At 88.80: oxidized + bleached fractures.	lim	Str	sil	Wk									
EC16-43		87.57	90.95	MGRA	Dark grey green quartz - feldspar sericite Metagranite, Possible more sub volcanic / porphyritic, quartz - feldspar augen 2 mm in fine grained sericite + quartz - feldspar matrix, weakly deformed banding, patchily oxidized along limonite fractures 10 / m.	lim	Mod	sil	Mod			APy		0.1				
EC16-43		90.95	95.12	MGRA	Patchy orange + grey green Brecciated Metagranite, texture locally subtle and intact but generally cut and disrupted by quartz + carbonate stringers. Matrix rough --> argillic alteration? Patchy bleached segments half - core --> bx clasts. Orange - brown or white clay fracture fill throughout, 10 / m.	lim	Mod	sil	Mod									
EC16-43		95.12	100.2	MGRA	Patchy orange + grey green Metagranite Breccia, angular MGRA clasts in fine grained milled + clay altered matrix. Quartz veinlet clasts within breccia. Gougy, possibly a fault zone. E.O.H.													
EC16-44		0	2.6	OVB	Casing no core recovered.													
EC16-44		2.6	10.88	MGRA	Muscovite - biotite Metagranite with gneissic texture. Shades of moderate grey, fine to medium grained muscovite and biotite (7-20%) fine grained annealed quartz feldspar; locally banded or segregated into micaceous (7-20%) and lighter quartz - feldspar bands. Local weak gneissiose texture and weak to moderately foliated. Occasional rusty limonite / Fe - carbonate sheeted, x-cutting stringers - 5% of interval. Weak to fair local silica flooding associated with sheeted quartz strong and local weak bleaching. Noted: sub intervals of increased sheeted irregular quartz - Fe carbonate unit / strong: (8.76 - 9.00 m) sub interval of 1/2 unit / strong. One 1/2 cm wide Quartz - limonite / pyrite unit + 1/2 dozen fine (1 mm) wide sheeted quartz stringers at 50 degrees tca which cross-cut foliation and veinlet. Trace to weak silicification and bleaching. Pyrite along envelope. Black pyrolusite. (9.00 - 10.88 m) - similar to above; quartz - Fe carbonate / limonite strong zone. ~ 17 in the this interval; weak bleaching about strong up to 3% pyrite / limonite particularly about stringers. Black pyrolusite on fractures.	carb	Tr	lim	Wk	sil - weak		APy		3	EPy	1	Epy - 1% locally, Apy - 3% locally.	
EC16-44		10.88	12.83	MGRA	Biotite Metagranite with augen texture. Moderate grey, coarse grained off white quartz and feldspar porphyroblasts exhibiting a weak to moderate augen texture; + crisp black, medium grained isotropic biotite (3%). Trace, anhedral disseminated pyrite throughout sub interval. 2 limonite / pyrite - quartz - Fe carbonate stringers cross cutting foliation are at (11.80 m) and are 25 degrees tca.	carb	Tr	lim	Tr			APy		0.1				
EC16-44		12.83	13.14	QV	Off white to mottled beige and greyish areas. Crackle - fracture re-healed vein with 25% diffuse WRI. 90% quartz with interstitial calcite - limonite - pyrite - pyrolusite fillings in fractures and vugs (10%). Pyrite often rimmed with limonite.	lim	Wk											
EC16-44		13.14	32.75	QAS	(1-3 mm) blue-grey quartz eyes; 15% fine to medium grain black biotite; al in a fine grain quartz - feldspar locally annealed matrix. Foliation is weak to moderate with local weak augen (quartz - eye porphyroblasts texture. Sub intervals within this lithology include: (22.89 - 24.75 m) - Quartz - calcite (+/- pyrolusite, limonite) stringer zone in paled weakly silicified biotite meta-granite. 40 stringers avg 1 mm wide, cross cutting foliation 40 - 70 degrees tca. Metagranite paled with some loss of texture due to weak silica flooding. Rare very fine, euheedral pyrite. 24.85 m QV; 28.58 - 30.20 m - 15 - 20% limonite + rust in sub-interval; numerous fine planar fracture set with fracture fill of Fe - carbonate + pyrolusite strong. Trace pyrite (anhedral) in rusty metagranite. 30.34 - 30.44 m - QV 30.57 - 31.20 m - Rusty Fe - carbonate -quartz stringer / tension gash zone meta-granite locally rusty about stringers. 31.20 - 31.77 m - chaotic quartz - Fe carb - pyrolusite veinlet - stringer zone. Rusty weathering along veinlet/ stringer with minor trace pyrite associated with clots of Fe - carbonate - limonite within veinlets/ stringer. Locally mottled with dark limonite and unusual silver sulfosalt - metallic mineral very fine grained, sub-euhedral and in trace amounts, possible arsenopyrite. 31.77 - 32.75 m - zone of weak oxide - rust stain in upper half of interval and FW margin. 3 veinlets / stringers, sheeted and at 70 degrees tca are in 32.75 - 33.04 - Pale beige - rust silica flooded zone. Mottled pale beige off white and local rusty patches, severely silicified zone. Original texture obliterated by silica flooding, cracked and re-healed texture. Fracture fill include Fe - carbonate, limonite, fine euheedral pyrite - *suspicious bright portions within some pyrite --> auriferous?? very fine grained, euheedral pyrite also as disseminated within silica flooded host and along fracture surfaces. Carbonate are both pale beige to deep rusty brown or sideritic. This silica flooded zone makes a jogged FW contact with the QV at 60 degrees tca.	carb	Mod	lim	Mod	Sil - moderate		EPy		0.1	APy	0.1		
EC16-44		32.75	33.04	SCH-f	Areas of milky white, tan - beige and deep rust brown --> 20 - 30% WRI average (3 x 4 cm) of tan - beige Fe - carbonate altered wall rock associated with 5-7% disseminated and spotty pyrolusite and very fine grained disseminated, euheedral to anhedral pyrite; this also includes a silica flooded non - calcareous WRI - similar colour; 7% deep rust brown ankerite - siderite carbonate with 3% disseminated pyrolusite and disseminated fine grained, euheedral to anhedral pyrite. Within 10 cm of FW con is a deep black irregular patchy 1 x 1/2 cm lining edge of silica flooded WRI possibly a variety of pyrolusite. The quartz itself does have within it trace amounts of very fine grained disseminated pyrite. Galena spec.	carb	Mod	lim	Str			EPy		0.1				
EC16-44		33.04	33.65	QV	Pale beige - rust Stringer - veinlet Silica flooded zone; ale beige - tan with light rust and local deep rust coincident with local x-cutting stringers. Host rock texture partially obliterated; moderately foliated, altered meg MGRA. Intense to extreme silica flooding with and average of 1 stringer or veinlet every 15 cm. Disseminated euheedral to anhedral pyrite thru matrix with a slightly higher abundance about stringers and veinlets.	lim	Str	sil	Str			EPy		3				
EC16-44		34.86	35.09	QV	White quartz vein.													
EC16-44		35.09	53.48	MGRA	textured foliation. Grain size of quartz porphyroblasts are coarse or 1-3 mm. Muscovite and black biotite (3-7%) are fg. Foliation generally at shallow angle tca; 0-5 degrees tca (35.09 ~ 45.30 m), steepening a bit ~ 20 degrees tca (45.30 ~ 51.75m); 0-5 degrees tca (51.75 - 53.48 m). Weak to moderate altered MGRA sub intervals include: (35.09-35.66m) rusty, broken, oxidized with one 2 cm broken quartz veinlet. Trace disseminated eu py. 15% jarosite - limonite of fracture surfaces hos. (37.16-37.37 m) - Strong zone of 5 stringers range from 2-5 mm in width. Pale beige tan alteration halo in MGRA. 2% fg, eu, disseminated py in MGRA matrix. (41.44-43.74m) Pale rust - beige, weak to moderately altered MGRA with 26 stringers and veinlets. Weak bleaching of sub-interval. Fg, eu and anh py increases with rust color intensity in matrix from trace - 3% locally. (44.47-45.16m) Pale rust - beige, weak to moderately altered MGRA and fine grained equigranular derivative -> foliation sub-parallel tca; coarse MGRA more broken and oxidized with quartz veinlets; fine grained derivative has slightly more disseminated, fg py in matrix (1-3%) + fine stringers instead of veinlets. 6 stringers / veinlets together. (45.16-47.55 m) Moderate grey mega - coarse grained quartz - porphyroblastic biotite - MGRA - locally weakly altered. 6 stringers cut this sub interval. Trace eu fg py in matrix. (47.55-48.62 m) Paler grey than	lim	Mod	carb	Mod			EPy		0.1	APy	0.1		
EC16-44		53.48	53.7	SCH-f	**logged as SFZ - Pale beige - off white Silica flooded zone. Pale beige - off white, mottled extremely silica flooded zone. Original texture obliterated. Healed crackle texture. Limonite - pyrolusite coating HW and FW fractures. 65 degrees tca - lower contact.	carb	Wk	lim	Wk	Sil - strong		EPy		0.1				
EC16-44		53.7	58.1	MGRA	General unaltered appearance of this interval is moderate to dark brownish - grey matrix with sub-angular to sub-anhedral off-beige porphyroblasts / phenocrysts giving rise to a meta - porphyritic or hypabyssal texture. Moderately foliated at moderate angles tca (30-40 degrees tca), flattening out towards bottom of the interval (0-5 degrees tca). The interval comprises several sub intervals that are intensely altered or cross cut by stringer - veinlet zones. Trace disseminated anhedral to euheedral pyrite is pervasive through this interval. (54.87 - 55.71 m) - Pale rust beige, moderately bleached, strongly oxidized with increase fine grained, disseminated, euheedral pyrite and jarosite - limonite fracture fill. (55.71-58.10 m) Weak to moderate stringer / veinlet zone with local intense oxidation; weak intermittent silica flooding to moderate at bottom of interval. Increase limonite - jarosite where more fractures occurs as well as increased disseminated euheedral pyrite in these local areas.	carb	Tr	lim	Mod	sil - moderate locally.		EPy		2				
EC16-44		58.1	59.8	QV Zone	Intense duo - phased stringer - veinlet zone in MGRA - hypabyssal. Paled - moderately bleached MGRA - hypabyssal cross cut by two intense stringer - veinlet sets in a conjugate geometry. Moderately silica flooded MGRA-hy has very crisp euheedral often striated ?? of disseminated pyrite; very fine grained. Textured partly obliterated by moderate silica flooding. FW and HW contact defined by local intense ankerite and oxidation about a quartz veinlet.	carb	Wk	lim	Tr	sil - moderate.		EPy		0.1				
EC16-44		59.8	61.09	MGRA	Moderately silica flooded, intensely oxidized MGRA - hyp. Rusty orange brown, intensely oxidized MGRA, locally severely silica flooded and bleached to pale beige along local shear planes in bottom half of interval. Local fracture with ankerite or Fe carbonate. Trace disseminated, euheedral pyrite.	carb	Mod	lim	Str	sil - moderate.		EPy		0.1				

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
EC16-44	61.09	64.9	MGRA	(61.09 - 64.18 m) Weakly - moderately silica flooded + oxidized MGRA. Grey, fine grained - medium grained, moderately foliated 0 - 5 degrees tca, meta-granite with 2-3% fine grained disseminated black biotite. Due to low angle intersect with respect to foliation; hypabyssal texture less apparent. MGRA is weakly - moderately altered: weak to moderate oxidized; local moderate silica flooding partly obscuring texture. Trace disseminated, euhedral pyrite in matrix. One very rusty stringer (4 mm wide @ 85 degrees tca) @ 61.60 - limonite + Fe - carbonate. (64.18 - 64.90 m) - oxidized Fault zone - Mixed colours of local intense rusty orange, off white and grey, fault zone with clay altered decomposed MGRA hanging wall and breccia clasts of off white quartz up to 9 cm long. Matrix is a gritty intense orange limonite with minor clay. The 9 cm quartz vein or clast contains a (3x3 mm) clot of very fine grained dark blue - grey disseminated sulphide. Fractures in this piece stained with limonite. Hanging wall, Foot wall contact are broken.	carb	Wk	lim	Str	sil -trace as fracture fill.		EPy		0.1				
EC16-44	64.9	75.2	QAS	cream colored feldspar phenocrysts + (1-3%) bluish grey quartz eyes (1-2 mm) in dark brownish grey fine grained matrix. The lithology locally has a porphyritic or hypabyssal texture - it is also weakly to moderately foliated. The interval is intermittently altered with weak to moderate silica flooding, oxidation and weak carbonate altered with weak to moderate silica flooding, oxidation and weak carbonate alteration locally about quartz - ankerite or quartz - dolomite stringers. (65.87-66.91) Local oxidization rust +/- weak Fe carbonate alteration close to or at stringer. (66.91-67.17) Moderately silica flooded grey MGRA-hyp; flanking a 3 cm dolomite quartz veinlet. Texture slightly mottled due to silica flooding. (67.17-68.28) reduced silica flooding, increase stringer intensity, Fe carbonate altered. (68.57-69.93) - MGRA-hyp is less altered, fewer stringers. Some paling where stringers are closer together. (63.93-70.47) moderately silica flooded with increase rust as compared with (68.57-69.93m). (70.47-71.91) Weakly altered MGRA hyp - slightly paled in color; weak silica flooding. (71.91-72.56 m) Deep rust red to rusty orange to rusty beige; original texture partly obscured due to intense ankerite alteration of MGRA-hyp. (74.96-75.26) 30 cm of HW rusty MGRA-hyp with an intensely ankerite altered shear @ 40 degrees tca within the MGRA-hyp.	carb	Wk	lim	Wk	Sil - moderate		EPy		0.5				
EC16-44	75.2	75.75	QV	Mega - crystalline white Calcite vein; milky white with local yellow - brown tinged, coarse grained x/n calcite. Large angular vug in centre of vein reveals angular calcite rhomb faces 1.5 cm across. 5% WRI. Could be a a large pod?													
EC16-44	75.75	78.33	MGRA	Metagranite - hypabyssal with veinlet zone +/- alteration. The host rock has a dark brownish - grey matrix with subhedral cream coloured feldspar phenocrysts 1-2 mm across (7-15%) and lesser quartz eyes. Black specks of fine grain biotite are noted in the upper part of the interval (3-5%). Foliation is generally weak. It appears to be primarily a porphyritic texture but does exhibit less "blended" MGRA-bio. Alteration is often local to off white crackle quartz veinlets and occurs as halo envelopes of ankerite alteration +/- weak silica flooding somewhat bleaching or paling the envelope.	carb	Str	lim	Str	Sil - weak								
EC16-44	78.33	81.05	SCH-f	Intense silica flooded zone with stringers veinlets and FW QV. Mottled and streaked beige - grey, rust and off white. Interval severely altered and contains intense upper stringer zone; middle veinlet zone and a large QV at the FW of this interval. Alteration includes strong to locally extreme silica flooding and moderate to strong oxidization with silica flooding in the middle portion of interval; ankerite alteration local to rusty - limonite fractures. Original texture strongly obscured by alteration. 1-10% disseminated, euhedral pyrite in matrix.	carb	Mod	lim	Str	Sil - strong		EPy		5				
EC16-44	81.05	82.3	MGRA	Biotite - chlorite Metagranite cross cut by weak stringer set. Lithology is a grey colored streaky to augen textured, schistose textured biotite - chlorite meta-granite. A weak to moderate stringer set cross cut the lithology - most are at the upper 1/3 of this interval. Moderately foliated.	carb	Wk	lim	Tr	sil - trace.		EPy		0.1				
EC16-44	82.3	87.31	MGRA	Biotite - chlorite Metagranite altered lower contact. Very similar to (81.05 - 82.23m) interval but less altered except to 30 cm sub interval up from lower contact where there is moderate bleaching, moderate silica flooding and a quartz - ankerite stringer. (86.28 - 87.31m) - Fault + broken core, rusty orange brown broken core that includes: rust clay gouge, partly decomposed and crackle MGRA, off white quartz veinlets and some broken pieces have cross cutting stringers (quartz) as well.	carb	Tr	lim	Mod	Sil - trace		APy		0.1				
EC16-44	87.31	92.23	MGRA	Metagranite - weakly to moderately altered. Very similar to (82.30 - 86.28 m) interval except interval is weakly - moderately altered; pale beige grey weakly to moderately silica flooded + weak oxidization + weak carbonate altered, moderately foliated biotite - chlorite weak schistose textured meta-granite. (89.46 - 92.23 m) Fault - pale oxidization, strong carbonate alteration. Pale rust colored interval comprising: broken altered - oxidized, decomposed and weakly silica flooded MGRA; gritty limonite - clay gouge; matrix supported breccia with MGRA and quartz sub rounded clasts; and fine rock crush. some surfaces altered to a greasy talc.	carb	Mod	lim	Mod	Sil - weak.		EPy		0.1				
EC16-44	92.23	93.81	MGRA	Meta-granite +/- hyp. Very similar to (87.31 - 89.46 m) interval; weak to moderate paling / bleaching towards upper contact. Trace disseminated pyrite in the altered bio-MGRA; local hyp texture.	carb	Mod	lim	Tr	Sil trace to weak								
EC16-44	93.81	94.73	QV Zone	Intensely altered complex of stringers - veinlets stockwork. Complex interval of primarily 2 episodes of sheeted stringers in the upper third of interval becoming a chaotic stockwork of stringers and veinlets with locally extremely bleached / silica flooded very pale beige to off white fractured and crackled meta-granite host. Texture locally obliterated by alteration.	carb	Mod	lim	Tr	Sil - strong								
EC16-44	94.73	98.22	MGRA	Biotite - Meta-granite; grey with beige - rust altered biotite meta-granite cross cut by 29 fine stringers including one veinlet. The biotite meta-granite has fine grained, disseminated, euhedral pyrite through its matrix.	carb	Tr	lim	Tr	Sil - moderate.		EPy		0.1				
EC16-44	98.22	100.58	MGRA	Meta- granite; grey becoming pale beige at bottom third of interval; weak augen texture; moderately foliated at 0-5 degrees tca. Quartz eyes and feldspar phenocrysts are coarse grained but texture towards bottom is obscured by silica flooding and alteration - increased pyrite. E.O.H.	carb	Tr	lim	Wk	Sil - moderate to strong.		EPy		2				
EC16-51	0.6	17	SCH-i	(0.6 - 10.1 m) Quartz - chlorite SCHIST, finely layered + deformed. Grey green finely layered quartz - chlorite schist, foliation felsic + mafic layers ~ 1 mm and grey quartz rich layers 5 mm. Foliation deformed at cm scale (tight folds) and at meter scale (foliation variation). Pyrite as fine grained cubes rotated within foliation. Locally crenulated. Carbonate within felsic layers. (10.1 - 15.5 m) Quartz - chlorite +/- carbonate SCHIST, carbonate horizons. Grey green carbonate - spotted quartz - chlorite - carbonate schist, carbonate as 1 - 2 mm blebs within foliation concentrated in 50 cm intervals, schist more grey where carbonate rich. Pyrite oxidized fine grained disseminated especially in carbonate horizons. Quartz sweats with wavy boundaries, boudinaged. Trace carbonate stringers x-cut sweats. (15.5 - 17.0 m) As above with oxide stain.	carb	Mod	lim	Mod	Carbonate - trace to moderate. Limonite - local, moderate.		EPy		0.5				2
EC16-51	17	18.6	SCH-m	Quartz - chlorite SCHIST, deformed phacoidal. Dark grey green quartz - chlorite schist, 3 mm lenses of quartz - feldspar? deformed, cut by cm cleavages down core axis, folded ptigmatic, phacoidal downhole. Fine grained pyrite in matrix anhedral 1%, oxidized / weathered giving crumbly texture.	lim	Mod					APy		1			1	
EC16-51	18.6	18.9	QV	Grey qtz vein, blocky + massive, with 2% - 3mm vugs. Altered wall rock weathering out, pyrite oxidized, fine grained as isolated crystal + within WRI, limonite fractures minor, trace Cpy with pyrite, lower contact rubbly and looks reactivated, possibly discordant cutting concordant.	lim	Tr					EPy		0.1	Ccp	0.1		
EC16-51	18.9	45.6	SCH-m	(18.9 - 22.25 m) Quartz - chlorite SCHIST, deformed, phacoidal. Dark grey green patchily oxidized, deformed + phacoidal quartz - chlorite schist, quartz sweats 5% 2 cm boudinaged + folded, foliation + crenulated, oxidized + punchy throughout with brown MgO? vugs in quartz layers. Oxidized fine grained subhedral pyrite within mafic folia - 1%. (22.25 - 33.4 m) Quartz - chlorite SCHIST. Orange grey green Quartz - chlorite schist, pyrite fine grained oxidized throughout 1% within mafic layers, foliation deformed by 5 mm mafic vs felsic layers, felsic layers locally folded into rootless isoclinal folds, quartz sweats 5 - 10 cm, dark grey boudinaged with MgO? vugs. 26.3 - 27.1: Punky layers with dark brown oxidized earthy mineral 10%, rough texture. Mg - rich layers? (33.4 - 45.6 m) Quartz - chlorite SCHIST deformation / dilation zones. Orange grain quartz - chlorite schist, oxidized pyrite, fine grained throughout within foliation, increase in quartz foliaform veins comparable to above. Veins boudinaged within folded + crenulated chlorite foliation. deformation zone in schist.	lim	Mod					APy		1			Apy down to 0.5%.	5
EC16-51	45.6	46.2	QV	Possibly concordant / old. Light grey quartz vein, massive with FeOx + MgO fractures, WRI wisps, unclear if x-cutting, possibly cuts older vein, appears older than nugget veins (deformed, stringers, darker appearance).													
EC16-51	46.2	56.39	SCH-m	Grey green Quartz - chlorite schist, quartz foliaform veins boudined + folded, locally phacoidal, 10% with fine 3% carbonate spots, foliation chlorite + felsic layers at low angle tca. Pyrite trace, oxidized, subhedral 1-2 mm. E.O.H.	lim	Wk					APy		0.1			5	
EC16-52	3	9	SCH-i	Deformed, layered quartz - chlorite schist. Light grey green quartz - chlorite schist, fold and lensoidal ~ 3 mm wide, quartz vs chlorite rich. Folded foliation throughout. Local non carbonate pale blebs 2 mm. Foliation cut by spaced crenulation ~ 45 degrees tca. Pyrite oxidized, subhedral, 1 - 2 mm throughout.	lim	Wk					APy		0.1			2	
EC16-52	9	22.4	SCH-m	Mafic schist. Upper contact not sharp. Patchy orange grey - green locally phacoidal (stacked fols lenses with chlorite foliation). Pyrite throughout 0.5%, subhedral to anhedral up to 1 mm. Punky dark lenses with ++ dark brown crumbly mn - MgO? Quartz foliaform veins minor, oxidized + fractured. Core noticeably discing along mf foliation. Minor stringers at base.	lim	Mod					APy		0.5			2	
EC16-52	22.4	22.5	QV	Quartz vein rubble. Rubbly quartz vein contacts not preserved. Possibly foliaform. Oxidized dark euhedral pyrite within quartz, trace. Minor cavities (weathered carbonate?) with termed quartz fragments.							EPy		0.1				
EC16-52	22.5	27.1	SCH-m	As 9.0 - 22.4 m. Patchy orange grey green Quartz - chlorite schist, crushed mf fol slightly greasy. Pyrite fine grained oxidized. Cut by 1 / m oxidized dry fractures at low angle tca.	lim	Mod					APy		0.5			2	
EC16-52	27.1	45.3	SCH-m	Mafic schist, dilational / foliaform vein zone. Patchy orange grey - green Quartz - chlorite schist, increase quartz foliaform veins related to above. Associated with carbonate within in veins + in rare stringers. 40.6 - 45.3: distinctly folded + crenulated mf schist. With 3 mm scale folia kink folded. Pyrite fine grained throughout.	carb	Wk	lim	Mod	Carbonate - weak to moderate.		APy		0.5			7	
EC16-52	45.3	48.3	SCH-i	Intermediate Quartz - chlorite SCHIST, carboate to horizon. Light green - grey quartz - chlorite schist, 5 mm felsic layers with thin chlorite laminae, well defined kink folds + crenulation. Pyrite throughout, fine grained. Felsic layers with carbonate fine grained + as 1 mm spots, local pinkish carbonate layers folded. Upper contact gougy with pits in foot wall.	carb	Mod					APy		0.1			2	
EC16-52	48.3	50.3	SCH-f	Quartz - chlorite SCHIST, Transitional. As above without carbonate + with ++ quartz foliaform veins. Looks a little more mafic than above. 50.0 - 50.3: 1% fine grained, euhedral pyrite within quartz rich matrix. Transitional zone to felsic schist below?							EPy		0.5			3	
EC16-52	50.3	50.6	QV	Rubbly core. White massive QV; WRI ~ 5%, wispy and sericite altered, euhedral pyrite - 1%, oxidized after WRI. Fractured, FeOx + earthy brown MgO? + dark dendritic MgO.							EPy		1				
EC16-52	50.6	63.3	SCH-f	(50.6 - 52.1 m) FLT - Gouge, felsic schist + quartz fragments. (52.1 - 63.3 m) Felsic schist, Light green competent, fine grained, massive / finely foliated Quartz - chlorite + muscovite schist; pyrite fine grained, oxidized throughout 0.5%, 1 mm carbonate spots 1% locally, fine grained feldspars? phenocrysts throughout ~ 0.5%. Quartz foliaform veinlets folded with undulating boundaries 5 - 10%. 60.0: Folded dark carbonate layer in felsic schist, possibly old foliaform veinlet.	carb	Wk			Carbonate - weak to moderate.		EPy		0.5				

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-52	63.3	63.6	QV	Massive white QV; associated with slight increase in pyrite in hanging wall, WRI 1% with minor euhedral pyrite, Slightly sericite ? bleached hanging wall and footwall.														
EC16-52	63.6	70.1	SCH-f	(63.6 - 64.7 m) As 52.1 - 63.3. (64.7 - 66.05 m) Felsic schist, layered, carbonate (+/-) horizon. Grey green Quartz - chlorite + carbonate schist, better defined fie layers than above. Pyrite oxidized especially downhole. (66.05 - 67.06 m) Punky, oxidized [fe < Mg ? (brown, earthy)] interval, core pitted + crumbly with irregular quartz veins throughout. (67.06 - 70.10 m) As 64.7 - 66.05 m. Layered felsic schist with carbonate in matrix. At 70.0 m - pale green with black selvages carbonate veinlet. Associated with fresh, euhedral pyrite in selvages. E.O.H. Quartz - chlorite SCHIST, layered. Finely layered quartz - chlorite schist; "vermicular" texture (fine quartz layers tightly folded) Grey - green. Weathered + oxidized.	carb	Mod	lim	Mod	Carbonate - weak to moderate. Limonite - moderate to strong, local.		EPy	0.5	APy		0.5	Apy - local.	5	
EC16-53	3.2	5.1	SCH-i	Light grey, massive quartz vein cut by stukuz? of orange cb with cockade texture. Lower contact x-cut quartz veinlet. Pyrite in carbonate, locally in foot wall (pits).	lim	Wk												
EC16-53	5.1	5.55	QV	wavy contacts, locally boudinaged, crenulation folds + spaced cleavage. (12.3 - 13.5 m) Quartz - chlorite - carbonate SCHIST, carbonate horizon. Light grey green quartz - chlorite - carbonate schist, carbonate in matrix + as stringers + veinlets. More felsic / light colored than above. Minor talc. Pyrite oxidized, fine grained. (13.5 - 19.0 m) Quartz - chlorite SCHIST, layered. Light grey green quartz - chlorite schist finely layered / "vermicular", locally layers kinked + disrupted giving spotted appearance. Quartz foliaform pinch out / lensoidal. At 18.1: carbonate patches in foliaform vein carbonate associated with fracture fill vein margins. (19.0 - 19.15 m) QV - x-cuts foliation at high angle. Dark grey with vugs (weathered carbonate?) + gougy slips in hanging wall and footwall. Fine MgO brown wisps within quartz. (19.15 - 33.6 m) Quartz - chlorite - muscovite SCHIST. Grey green quartz - chlorite - muscovite schist, minor fine grained light green epidote? within foliation. Quartz foliaform veinlets folded + deformed. Minor white carbonate stingers. 22.2 - 22.6: bleached buff interval with irregular carbonate + chlorite stringers cutting layered foliaform quartz vein. Pyrite fresh in 1 - 2 mm clots of fine grained crystals. Carbonate patchy within foliae. (33.6 - 33.7 m) FLT - minor fault. (33.7 - 34.8 m) Quartz - chlorite - muscovite SCHIST, oxidized. Light grey green quartz - chlorite - muscovite schist, patchily oxidized	carb	Str					EPy	0.1						
EC16-53	5.55	34.8	SCH-i	Mottled grey quartz vein, MgO + FeOx along fractures and margins, pyritic selvages. Fine altered WR fragments along margins.	carb	Wk	lim	Wk	Carbonate - weak to moderate. Limonite - weak to moderate - local.		APy	0.5			Locally down to 0.1%.	2		
EC16-53	34.8	35	QV	(35.0 - 38.5 m) Rubbly quartz - chlorite - muscovite SCHIST. Oxidized + rubbly quartz - chlorite - muscovite schist. Pale tan green with 0.5% fine grained oxidized pyrite disseminated. Foliation fractured and disrupted by dry fractures 3 / m. Fractures with earthy dark brown clay coating. (38.5 - 40.0 m) FLT - Rubbly core. Quartz - chlorite - muscovite SCHIST fragments. Minor talc (greasy feel). (40.0 - 50.29 m) Quartz - chlorite - muscovite SCHIST, fractured and oxidized. Finely fold oxidized quartz - chlorite - muscovite schist, rare 2 mm quartz porphyroclasts, oxidized pyrite within foliation, foliaform quartz veinlets 5 mm folded with pinch and swell shape, cleavage (crenulation) 1 cm spaced at low angle TCA (almost parallel). 3 MgO oxidized fractures / m. Possibly interval before / hanging wall to another fault zone. E.O.H.	lim	Mod			Limonite - weak to moderate		APy	0.5						
EC16-54	2.9	30.1	SCH-i	(2.9 - 25.9 m) Quartz - chlorite - muscovite SCHIST. Fine grained, finely layered quartz - chlorite - muscovite schist, quartz foliaform veinlets ~ 1 cm clustered in groups of 3 - 5 every meter or so. Minor local deformation (folded ff (fracture fill?) quartz veins). Pyrite oxidized, fine grained within foliation. Light grey green. (25.9 - 30.10 m) Quartz - chlorite - muscovite SCHIST, deformed. Light grey - green fine grained, closely folded and crenulated (cleavage), deformed by quartz vs chlorite + muscovite layers < 1 mm, increased foliaform quartz, folded + boudinaged. Dilational / deformation zone from pre vein episode. Pyrite fresh, subhedral. Lower 2 m with dark fracture fill vein margins + fractures. Quartz - muscovite - chlorite SCHIST / quartzite with vein zone. Pale green competent fine grained, finely nearly massive looking quartz - muscovite - chlorite SCHIST. Hosts quartz vein array ~ 2 / m. Quartz foliaform 5% with distinctive wavy contacts. X-cutting quartz veins not associated with deformed foliation.	lim	Wk					EPy	0.1	APy		0.1			
EC16-54	30.1	36.3	SCH-f	(36.3 - 36.4 m) FLT - oxidized and gougy with MgO + FeOx. (36.4 - 36.8 m) Finely layered grey green Quartz - chlorite - muscovite SCHIST.														
EC16-54	36.3	36.8	SCH-i	Foliaform veinlets with minor pyrite, deformed.	lim	Mod			Limonite - local.		APy	0.1						
EC16-54	36.8	37.1	QV	Vuggy coarse grained quartz vein, massive / blocky, light grey / dark grey and light grey quartz, milkier / more massive light quartz infilling. Grey - green finely layered quartz - chlorite schist, pyrite cubes oxidized up to 4 mm ~ 1%. Fabric disrupted with folded quartz foliaform + mid-generation dark quartz + carbonate vein.	lim	Wk					EPy	1				5		
EC16-54	37.1	38.4	SCH-i	Bright white massive quartz vein, cut by oxidized fractures and with carbonate in various degrees of weathering away to form vugs. Planar vug with coarse grained formed euhedral quartz ~ 40 degrees tca. Rubbly, without pressure contacts.	lim	Wk					EPy	0.1				5		
EC16-54	38.7	39	SCH-i	As 37.1 - 38.4 m. Well defined folds in felsic layers. Coarse grained pyrite - 1%.							EPy	1				5		
EC16-54	39	39.2	QV	Bright white massive quartz vein, WRI irregular with minor oxidized pyrite, possibly fold nose. Lower contact rubbly / gougy --> fault. (39.2 - 43.2 m) Grey green Quartz - chlorite SCHIST, well defined, fine foliation with spaced crenulation cleavage locally. Pyrite euhedral, oxidized within foliation throughout. Quartz foliaform veinlets + minor x-cutting veinlets throughout. Deformation / dilation zone. (43.2 - 56.39 m) - Light grey green Quartz - chlorite SCHIST. Fine grained with fine chlorite vs quartz foliation layers. Folded throughout, cm to 10 cm scale. Rare 1 mm quartz eyes / clasts within foliation. 50 - 50.3 m: 5% chlorite clots - relict vole texture? 53 - 56 m: Local brecciation within matrix, dark green chlorite stockwork. E.O.H.														
EC16-54	39.2	56.39	SCH-i	(6.4 - 14.9 m) Dark grey green Quartz - chlorite SCHIST, Kinked at 5 cm scale throughout, chlorite slips / crenulation cleavage, quartz foliaform < 1 cm , lensoidal, folded rarely boudined, 3%. Foliation chlorite vs quartz ~ 1 mm discontinuous. Pyrite subhedral within foliation. (14.9 - 25.0 m) Quartz - chlorite SCHIST/ Vein zone. Grey green quartz - chlorite schist, foliation at low angle TCA but folded and kinked near veins. Quartz foliaform veins boudinaged + folded, cut by discordant quartz veins. Appears that crenulation fabric dominates (older foliation visible at steep angle tca). 22 - 25 m: Coarse grained euhedral oxidized pyrite, 2% associated with x-cutting quartz veins. Quartz unusually light grey and massive with thin brown fractures / grain boudaries perpendicular to vein walls. Vugs in quartz filled with brown clay + carbonate --> original? Light grey green poorly layered Quartz - chlorite SCHIST, almost massive / quartzite, fine grained pyrite trains within foliation oxidized, locally pits. Wavy boundaries in quartz foliaform veins.	lim	Wk			Limonite - weak, local.		APy	0.1						
EC16-55	6.4	25	SCH-i	(27.8 - 29.5 m) Quartz - chlorite SCHIST, fold zone. Light green quartz - chlorite schist folded + deformed with irregular folded qfol veinlets. Local graphitic slips, pyrite 1 - 3 mm within chlorite foliation layers. (29.5 - 37.3 m) Grey green Quartz - chlorite SCHIST, felsic layerers quartz with chlorite clots, subordinate chlorite rich layers, spotty gritty texture with 1 m quartz fragments standing out in quartz - chlorite matrix. 1 cm folded quartz foliaform veinlets throughout. Patchy epidote in chlorite foliation layers. (37.3 - 60.96 m) Grey green Quartz - chlorite SCHIST with well defined layers, 5 mm quartz foliaform 1 cm with ribbons of chlorite parallel to foliation, local fine grained quartz porphyroclasts within foliation. Almost felsic looking but without muscovite + better deformed foliation. Quartz veins associated with oxidized pyrite in selvages. E.O.H.														
EC16-55	27.8	60.96	SCH-i	Rounded and re-drilled core.							EPy	0.5			Epy locally up to 1%.	3		
EC16-56	0	4.6	OVB															
EC16-56	4.6	13.55	SCH-i	White to dark grey / black - banded / ribbed texture. Also a SCH-tec texture to core without the extreme deformation. Minor deformation. Minor coarse grained silver sericite. Well foliated throughout the interval. Unit has a SCH-lam-nu texture but the bands are discontinuous and not a good SCH-lam-nu. Minor band of breccia - quartz clasts floating in a dark green chloritic ? matrix at 11.35 - 11.38 m. Lose of the banded/ ribbed texture compared to above unit. Light to medium grey with a local green tinge. Well foliated throughout interval with minor local more massive texture. Locally moderately deformed. Cross cutting wispy carbonate stringers. Patchy limonite staining locally pervasive.														
EC16-56	13.55	25.2	SCH-i	Possible QAS - looks very similar to above SCH-i but with the addition of light blue and white quartz eyes. Eyes range in size from 1 - 2 mm in size. Locally clustered at upper and lower contact.														
EC16-56	25.2	26.5	QAS	Medium to dark grey with a green tinge. Well foliated. Wispy cross cutting carbonate stringers. Milky white quart sweats are locally concentrated as well as disseminated. Strong limonite staining along fracture surfaces. Patchy epidote alteration. Local spotted chlorite texture. Local blue quartz eyes in a small local section.														
EC16-56	26.5	51.2	SCH-i	Pale to medium green; classic SCH-f; Locally porphyroblastic texture with white quartz eyes. Quartz eyes are lath shaped (feldspars) and circular. Locally pervasive hematite staining. Cross cutting carbonate stringers.														
EC16-56	51.2	55.15	SCH-f	Medium green - grey; altered SCH-f; patchy carbonate alteration that is stained with limonite. Lose of porphyroblastic texture. Weak SCH-yel over print.														
EC16-56	55.15	57.3	SCH-f	Medium green, massive with porphyroblastic texture - white quartz eyes. Quartz eyes ranging in size from 2 - 5 mm wide. Local patchy hematite staining. Cross cutting carbonate stringers. Sharp lower and upper contacts with SCH-f/ yel.														
EC16-56	57.3	63.05	SCH-f	Pale green / grey; SCH-f that is weakly altered. local SCH-tig texture - weak at 63.27 - 63.60 m. Weak SCH-yel overprint.														
EC16-56	63.9	67.25	SCH-f	Medium green with a grey tinge. Carbonate cross cutting stringers. Lower contact has hematite staining as well as limonite staining. Medium to dark grey; moderately deformed quartz lenses. Patchy limonite staining - locally pervasive. Foliation is locally pulled sub parallel. Well foliated. Weak SCH-yel overprint on fracture surfaces. E.O.H.														
EC16-56	67.25	70.1	SCH-i	(2.6 - 11.1 m) Grey green patchily oxidized quartz - chlorite schist, Well defined layering ~ 1 mm, locally disrupted + folded, with quartz foliiform veinlets parallel to foliation + 10 cm massive fold nose veins. (11.1 - 20.5 m) Grey green interlayered / transitional quartz - chlorite schist. Intervals that look like SCH-f (massive, pitted/ carbonate spots, fine grained + muscovite) and others with well defined layered + texture equally defined by chlorite + quartz Lensoidal quartz foliaform veinlets 5%. Carbonate within matrix + as fine stringers. Lower 0.4 m brecciated with chlorite + quartz matrix.	carb	Wk	lim	Wk	Carbonate - weak to moderate - local. Limonite - weak - local.		APy	0.1				2		
EC16-57	2.6	20.5	SCH-i	Light green quartz - chlorite - muscovite schist / micaceous quartzite. Massive with subtle foliation thin. Carbonate spots fine grained 1% within foliation, folding and kinking at 1 cm - 10 cm scale, quartz foliaform veinlets folded throughout, scattered disconuous. Chlorite stockworks / brecciated zones ~ 5 cm. 22.9 - 24.3 m: Deep pink ~ hematitic stain in schist.	carb	Wk			Carbonate - weak to moderate.		APy	0.1						

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
EC16-57	36.2	48.3	SCH-i	(36.20 - 41.70 m) Green grey Quartz - chlorite schist, well defined layers, hard + competent, discontinuous / lensoidal quartz foliaform folded with foliation, pale green clots within matrix + cutting across layers rare, not reactive. Similar to 11.1 - 20.5, transitional between SCH-i and SCH-f. (41.7 - 42.7 m)Buff oxidized zone, layered Quartz - chlorite schist brecciated + folded. Dark stockwork of discontinuous stringers. Well defined 1-2 mm layering kinked thru. 3% epidote clots within mafic foliation. (42.7 - 48.3 m) Green grey Quartz - chlorite schist, well defined 1 - 2 mm layering kinked throughout, locally well defined? crenulation foliation + cleavage, 3% epidote clots within mafic foliation, carbonate associated with fresh pyrite fine grained within foliation. Lower 0.5 m pale green color develops - gradational contact with SCH-f below.	carb	Wk	lim	Mod	Carbonate - weak to moderate. Limonite - moderate, local.		APy	0.1			Apy locally up to 0.5%.	3		
EC16-57	48.3	71.4	SCH-f	(48.3 - 49.7 m) Pale green quartz - muscovite - chlorite schist / micaceous quartzite, fine grained pyrite within carbonate - quartz foliaform veinlets with wavy contacts. (49.7 - 51.4 m) FLT - Gougy rubbly fault cutting felsic quartz - muscovite - chlorite schist. (51.4 - 71.4 m) Green Quartz - muscovite - chlorite schist / micaceous quartzite; subtly deformed fine layering 1 mm, fine grained white feldspars? phenocrysts. Clasts within matrix, 1% carbonate spots, fine grained oxidized pyrite throughout, 1 cm quartz foliaform veinlets with wavy contacts, irregular deformed + lensoidal. Cut by 2 / m quartz - clay stringers 61 - 65 m.	carb	Wk			Carbonate - weak patchy		APy	0.1			Apy locally up to 0.5%.	2		
EC16-57	71.4	72.85	SCH-i	Grey green Quartz - chlorite - muscovite schist, minor talc within mafic layers, well defined 5-10 mm quartz vs chlorite foliation layers, locally phacoidal, lensoidal quartz foliaform veinlets. Deformation zone / slip ? E.O.H.														
LS16-58	0	3.05	OVB	Casing and no core recovered to 2.45 m; Casing to 10 feet with re-ground oxidized pale green misc SCH-f rubble and dirt.														
LS16-58	3.05	8.4	SCH-f	SCH-lam	Pale green pitted Muscovite - sericite quartz SCH-i (possible a SCH-i?) with lesser chloritic segregation; interval is oxidized ad pitted along foliation with common very thin discontinuous foliform quartz (overall < 1% foliaform quartz). (7.4 - 8.4 m) - same host as 3.05 - 7.4 m but a zone of concentrated foliaform pinching and deformed pitted QV's; rusty with abundant sericite / muscovite hanging wall to x-cutting QV. QV white with orangy yellow limonite stringers; < 1% 2 mm rusty (?py) clots within QV local cubic outlines of rusty blebs in vein; FW contact has 2% euhedral pyrite cubes.	lim	Str				APy	0.1			10			
LS16-58	8.4	8.6	QV		FW to x-cutting QV rusty Muscovite - sericite - quartz SCH-i (possibly a SCH-f) with concentrated deformed quartz sweats locally isoclinally folded and augen shaped.							APy	1					
LS16-58	8.6	10.9	SCH-i	SCH-lam	Grey - green Quartz - chlorite - muscovite +/- epidote SCHIST; (ribbon banded) local wavy banding - crenulated with very thin white quartz layers contrasted against dark green chlorite / sericite bands (could just be the oxidized version of unit above however presence of chlorite and epidote here with probable thrust fault below).	lim	Str											
LS16-58	10.9	13.55	SCH-i		Highly contoured FAULT possible thrust as black Mn + graphitic matrix to shear disjointed tightly folded quartz bands 2-3 cm in size then offset and white quartz vein fragments in fault. Zone is highly oxidized with Mn + graphite between 14.9 - 15.7 m. 5 cm fault gouge at 14.0 - 14.05 m; local chlorite and epidote 13.55 - 14.9 m.	lim	Wk											
LS16-58	13.55	15.8	SCH-i	SCH-tec	Pale green very quartz rich SCH-f with no observable foliation; unit has 1 mm sized rusty pits which gradually decrease down hole; (upon close inspection a weak foliation exists - with abundant sericite; lower contact is gradational; euhedral pyrite.	lim	Str					APy	1					
LS16-58	15.8	17	SCH-f		Pale green thinly banded Quartz - sericite SCHIST; foliated with limonitic fractures plus < 1 mm sized rusty pits; quartz layers often discontinuous; very similar to 15.8 - 16.9 m interval only has discrete foliation. 80 degrees tca.	lim	Mod					APy	0.1			0.1		
LS16-58	17	17.9	SCH-i	SCH-lam	Milky white broken quartz vein with 3 mm across euhedral rusty pyrite cubes.	lim	Str					APy	0.5					
LS16-58	17.9	18.1	QV			lim	Mod											
LS16-58	18.1	20.2	SCH-i		Oxidized pale green / orange quartz - muscovite/ sericite SCHIST + Mn rusty FeOx rich thinly foliated broken SCH with heavy FeOx + local manganese coated fractures at various angles tca; 20.2 marks lower extent of strong FeOx associated with major FLT 13.55 - 15.8 m above.	lim	Str					APy	0.1			1		
LS16-58	20.2	20.45	QV		Zone of multi-generation (?foliaform) recrystallized fractured QV; broken with thick Mn coating fractures; old yellow + grey Qtz veining.	lim	Mod	mno	Str			APy	1					
LS16-58	20.45	28.5	SCH-i	SCH-lam-nu	Silvery pale green Sericite - quartz - muscovite SCHIST deformed. Highly deformed discontinuous white quartz rich layers with local epidote sporadically throughout interval; quartz sweats / foliaform quartz lenses are broken and fractured often with epidote rich margins; patches of Mn between 26 - 26.3 m; oxidized from 26.4 - 28.5 m with increase of sericite towards QV below; zones of deformed and tightly folded quartz sweats throughout. 28.3 - 28.5 m hanging wall to QV below, intensely oxidized zone of SCH - orange white in color.	lim	Wk	mno	Wk	Locally limonite is strong pervasive.		APy	0.1			2		
LS16-58	28.5	28.9	QV		QV - white quartz with abundant very thin limonitic fractures + Mn and FeOx coat open space, 2% fine grained pyrite in cubic shaped blebs concentrated along lower margin (?? Target veins of drill hole??)	lim	Str					APy	2					
LS16-58	28.9	30.8	SCH-i	SCH-lam-nu	Pale green Sericite - quartz - SCHIST banded; ribbon width bands of sericite (lesser chlorite) + quartz bands as oxidized FW to QV; wavy foliation; Local Mn. (29.6 - 30.8 m) Fault / QV - broken gouge rich black Mn coated SCH host with white QV (30.5-30.6 m). Broken upper and lower contacts of fault.	lim	Str				Y	APy	0.1	EPy	0.5 7 specs of VG total (28.6 - 28.7 m).	20		
LS16-58	30.8	31.8	SCH-i	SCH-lam	Pale green sericite rich; Sericite - quartz SCHIST; wavy banded with discontinuous quartz lenses; lower contact is coated in dull black manganese.	lim	Str					APy	0.1			10		
LS16-58	31.8	32	QV		QV with limonitic faulted upper contact.	lim	Str					APy	0.1					
LS16-58	32	38	SCH-i	SCH-lam	Pale green Sericite - quartz SCHIST locally deformed but thinly banded / foliated SCH with ~ 1/m black Mn coated fracture; common discontinuous highly fractured + boudinaged with quartz lenses with Mn hairwidth fractures sporatic epidote. 32.0 - 34.0 m oxidized pitted interval associated with QV zone between 28.5 - 32.0 m.	lim	Mod									2		
LS16-58	38	40.1	SCH-f	SCH-yel	(38.0 - 38.7 m) - FLT - Broken interval of oxidized SCH-f with common Mn coating fractures; 10 cm of gouge at lower contact, upper contact has stylonitic broken foliform? quartz veins with associated epidote tan colored? clay sutures quartz lenses are very pitted with rare remnant euhedral pyrite. (38.7 - 40.0 m) - Pale green with large orange patches; Sericite - Quartz SCHIST; locally deformed; very bleached with FeOx altered envelopes away from fractures making patches 20 - 30cm. QV at lower contact.	lim	Str					EPy	0.1					
LS16-58	40.1	52.5	SCH-f	SCH-yel	(40.1 - 46.0 m) Pale grey green (orange) Sericite - quartz SCHIST thinly foliated and locally deformed with discontinuous fractured and boudinage quartz stringers - foliform (locally leached and pitted ? secondary quartz flooding and oxidation which cross cuts foliation). (46.15 - 52.2 m) Very pale yellow green / grey pitted quartz - sericite +/- pyrite SCHIST (possible rhyolitic influenced unit?) as distinctly more quartz rich competent core with ubiquitous < 1 mm sized pits filled or lined with jarosite?; ghosty faint ?phenocrysts (?porphyroblasts) ?feldspars originally?? observed. 46.7 - 47.5 m intensely oxidized FeOx (+ Mn fractures). 48.9-51.3 m Zone of silvery pyrite 2-3 mm crystals in crude stringers 65 - 70 degrees tca.	lim	Str	sil	Tr									
LS16-58	52.5	56.4	SCH-i	SCH-tig	Banded silky green + dark green Muscovite - sericite - quartz SCHIST; ribbon banded and contorted and discontinuous patches of dark green chloritic (after muscovite); oxidized 54.75 - 56.4 m; quartz sweats discontinuous and truncated, minor orange amorphous ?clay infill pits. SCH-tig texture comes in starting at 54.86 m.	lim	Mod											
LS16-58	56.4	56.65	QV		Milky white with limonite + FeOx +/- Mn fracture QV; clot < 1 cm wide of epidote along upper vein margin in quartz, dark grey very fine grained sulphide patchy within quartz.	lim	Str											
LS16-58	56.65	57.5	SCH-i	SCH-tig	Same as 52.5 - 56.4 m interval (Banded silky green + dark green Muscovite - sericite - quartz SCHIST; ribbon banded and contorted and discontinuous patches of dark green chloritic (after muscovite); oxidized 54.75 - 56.4 m; quartz sweats discontinuous and truncated, minor orange amorphous ?clay infill pits.) With SCH-tig texture.	lim	Mod											
LS16-58	57.5	60.96	SCH-f	SCH-yel	(57.5 - 59.0 m) - pale silvery light green Muscovite + sericite - quartz SCHIST deformed foliation. (59.0 - 59.3 m) - fault - Light tan clay gouge FAULT muscovite rich SCH host; boudinaged quartz sweats. (59.3 - 60.96 m) same as 57.5 - 59 m. Muscovite rich SCHIST with manganese clots and fine partings; zone of concentrated clear and grey foliform quartz stringers between 60 - 60.85 m with trace fine grained pyrite at 60.7 m. E.O.H.	carb	Tr	lim	Tr			EPy	0.1					
LS16-59	0	7.62	OVB		no core recovered up till 3.05 m; Ground core + dirt overburden in box with 40% rounded QV fragments - limonitic and up to 5 cm long at start of hole - additional casing to 25 feet - 7.62 total.	lim	Str					APy	0.1					
LS16-59	7.62	16.6	SCH-i	SCH-lam	Green grey weathering Muscovite - sericite +/- chlorite SCHIST spotted. Speckled with clots of graphite, thinly foliated locally wavy muscovite - sericite pitted oxidation SCH; weak reaction to HCL between ~ 12.4 - 14 m. 9.1 - 11.0 m Orange oxidized interval of sericite SCH with FeOx filling 1-3 mm sized rounded pits; foliation wavy; increase in foliaform quartz lenses to 10% with rusty selvage and local open space cavities --> 10.8-11.0 m concentration of deformed quartz veining with 1% cubic rusty pyrite and veinlets of yellow / tan amorphous mineral (non calcareous). 12.0 - 12.5 m Orange oxidized quartz with rusty pyrite cubes more quartz rich interval. 12.4 - 12.9 m Orange oxidized quartz rich zone with 40% fractured pitted QV material 12.8 - 12.9 m. 13.9 - 14.0 m Foliform < 2 cm vein in orange limonitic SCH; deformed and fractured making SCH oxidized. 14.3 -14.36 m Orange oxidized zone with graphitic margins; < 2 cm fractured foliform QV at 14.22 m. 15.4 - 16.6 m - patches and clots of dull black graphite and interval is speckled with < 1 mm --> 2 mm FeOx rounded pits up to 3% overall; thin white quartz stringers along foliation have common open space as oxidized out pyrite? unit gradually becomes more quartz rich and finer grained ??possible chill margin to old feldspar felsic dyke unit below...	lim	Str	carb	Mod	Carbonate - moderate locally.		APy	0.1				5	
LS16-59	16.6	22.5	SCH-i	SCH-lam	(16.6 - 18.0 m) Light green finer grained Muscovite - sericite quartz SCHIST foliated gradual transition to finer grained yet foliated SCH with increased quartz content - ?chill margin to dyke? Thin x-cutting boudinaged shaped fractured limonitic QV's (with 3 specs VG @ 17.5 and 17.84 m) X-cutting veins oriented 65 - 60 degrees tca obliquely to foliation of 70 degrees tca. (18.0 - 18.2 m) ***was previously logged as a possible felsic dyke? Pale grey (green) fine grained quartz - sericite +/- feldspar SCH with distinctive spotted texture due to oxidized pitted feldspar? (phenocrysts in original rock?) - unit is very weakly foliated same as host schist ~ 70 degrees tca. Upper contact deformed parallel to foliation and lower contact sharp 70 degrees tca. (18.2-21.9 m) Same as 16.6-189.0 m. Interval of fine grained (chill margin to felsic dyke below?); still pitted with rusty infill thinly foliated with mm sized segregations; distinctly quartz sweat poor; intensely rusty FeOx coated fractures with local manganese. *VG bleb along fracture with irregular discontinuous rusty QV; VG is 2 mm wide with grooves from drill bit ad located on very edge of quartz lens at 18.9 m fracture / QV with VG oriented 55 degrees tca (foliation 68 degrees tca). (21.9 - 22.5 m) Intensely rusty quartz ribbed broken interval (+0.4 m LOST core @ 21.9 m *possibly washed away gouge); unit same as FW to dyke.	lim	Wk				Y	EPy	1				VG - 3 specs at 17.5 m, VG size 0.5 mm max size. VG associated with x-cutting QV + FeOx cubic pyrite. 4mm VG at 18.9, 2.5 mm VG at 20.7 m.	
LS16-59	22.5	28.4	SCH-i		**** Was previously logged as a possible felsic dyke? Pale grey (green) fine grained quartz rich - sericite +/- feldspars weakly schistose felsic dyke? Distinctive subangular 1.5 - 2 mm yellow clay filled ?feldspar phenocrysts; distinctive speckled texture in fine grained groundmass; unit is rusty fractured and faulted with minor yellowy clay gouge @ 24.4, 26.1, 27.2 and 27.8 m. 27.2 --> 28.4 m intensely rusty quartz rich banded FW contact to dyke with gouge and 3% local concentration of rusty euhedral pyrite cubes and FeOx pits.	lim	Str	mno	Mod			EPy	1					

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-59	28.4	30.4	SCH-i	SCH-lam	Dark grey green Sericite - chlorite +/- epidote quartz SCHIST speckled with chlorite, wormy with rounded discontinuous cloudy quartz lenses in a banded / foliated sericite dominant host; epidote appears late and ragged patches; foliform quartz lenses are locally wedge shaped with Mn coated fractures. 30 - 30.4 m HW to V below intensely rusty silicified with angular quartz fragments in SCH host near QV; unit is very pitted.	lim	Wk	mno	Mod			APy		0.1		5
LS16-59	30.4	30.6	QV		QV - Nice fractured QV (with later 1 cm x-cutting fracture fill @ 30.5 at 65 degrees tca); cubic cavities up to 1.5 cm across; trace cubic pyrite.	lim	Str					EPy		0.1		
LS16-59	30.6	37.5	SCH-i	SCH-lam-nu	White / green stripped ribbon banded Chlorite - sericite - quartz SCHIST with abundant deformed quartz sweats highly deformed fractured and truncated with quartz lenses; wavy foliation; common very thick FeOx coating fractures. 30.6-30.9 m FW to QV intensely rusty with minor orange sandy gouge; two x-cutting very rusty fractures at 25 and 30 degrees tca; 3% euhedral pyrite. 33.4-34 m Zone of concentrated rusty fractured re-worked quartz veins up to 5 cm wide; Faulted zone. 34.7 --> 34.9 Local foliation change to 25 degrees tca. 33.7 m 5 cm orange yellow clay gouge FLT. 32.3 --> 34.6 m Strong ribbon banding (chlorite rich). 34.6 --> 37.5 m Thinly laminated planar foliated quartz rich SCH pitted with 1 mm FeOx pits. 37.25 - 37.3 m - intense Mn coats fractures.	lim	Str				EPy		1	Epy up to 3% locally.	10	
LS16-59	37.5	37.8	QV		Milky bull (non limonitic) QV with 2 cm wall rock inclusion in vein; possibly foliform fractures coated in dull black Mn. Same as 30.6 - 37.5 m interval with lesser ribbon banding; interval here is pitted with 1-2 mm rounded FeOx lined pits and variably deformed rusty schist of sericite / muscovite moderately broken with sandy FeOx rich rubble zones ex. 38.5 m. 39.7 - 39.9 m zone of intense fuchsite with discontinuous as x 2 cm quartz fragments; - non calcareous very poorly foliated interval.	lim	Str				EPy		2		10	
LS16-59	40.2	40.65	SCH-i	SCH-lam-nu	QV locally brecciated with 2.5 cm wide wall rock section within milky white fractured quartz.	lim	Str					APy		2		
LS16-59	40.65	45.7	SCH-i	SCH-lam-nu	(40.65-41.95 m) Fault intensely rusty chlorite / sericite SCH fragments in an increasing amount of light pale green gouge host. *0.8 m of core loss 41.15-41.95 m washed away clay gouge. (41.95 - 45.7 m) Dirty pitted sericite - muscovite - quartz +/- carbonate +/- graphite SCHIST; highly deformed tightly folded wavy layers of sericite - chlorite - muscovite / quartz ? possible thrust ? correlated with LS16-38? Carbonate + dull black graphitic interval between 42.7 --> 44.3 m. Interval becomes bleached and more siliceous down hole.	lim	Str	carb	Mod							0.1
LS16-59	45.7	60.96	SCH-f		(45.7 - 48.9 m) - Pale yellow (green) / orange clay gouge fault with < 15% siliceous SCH-f fragments and 2-5% white quartz fragments up to 3 cm wide. 45.7 - 45.73 m 3 cm rusty cm. (48.9 - 54.2 m) -Pale green felsic SCH fragments in 40% clay gouge - locally hematitic; generally < 10 cm long febic??? SCH pieces + white angular quartz fragments minor Mn coating fractures 52.5 --> 53 m. Common gougy fractures 25 degrees tca in broken and shattered felsic SCH. (54.2 - 60.96 m) - Pale green (silvery) Muscovite - quartz SCHIST - felsic; distinctly more homogenous quartz rich unit with muscovite / sericite partings and deformed globular deformed quartz along foliation which is locally non planar. Foliation at top of interval is roughly 65 degrees tca but towards end of hole is 40 degrees tca. 2 cm yellowy gouge at 59.2 and 8 cm gouge at 59.72 m. E.O.H.	lim	Wk				EPy		0.1		7	
LS16-60	0	2.2	OVB		Casing to 1.94 m no core recovered. Reground rusty SCHIST and QV white fractured quartz fragments.	lim	Str					EPy		0.1		
LS16-60	2.2	19.7	SCH-i	SCH-lam	(2.2 - 4.4 m) Orange and silvery green / grey Quartz - sericite - chlorite SCH-i banded. Surface oxidized down to 5.7 m; unit is very pitted leaving rectangular FeOx / clay filled blebs 1-3 mm ?originally feldspar or pyrite; interval has common D3 crenulation cleavage developed around dry fractures. Core is Mn coated sub parallel tca fractures between 3.2 - 4.4 m. (4.4 - 15.4 m) "prospective" rhythmically banded dark green / white mica quartz SCHIST unit that is deformed with common D3 kinks in a carbonate (weak reaction to HCL ?ankerite), locally small silvery cubes of pyrite? syngenetic - like? bands along foliation common epidote in thin layers along foliation; 30% of interval is pitted. (15.4 - 19.7 m) - Porous / pitted intensely oxidized highly deformed quartz rich banded SCHIST / Faulted zone; quartz layers to mica / sericite layers are not the same width (as desirable for diss A) with wavy boundaries to quartz layers 3-5 mm wide separated by much thinner chlorite / sericite partings (1 mm generally); entire interval is pitted with dull black Mn (possibly minor graphite) and dry rubble faulted zones especially 16.2 --> 17.6 m abundant kink folds 35 - 45 degrees tca.	lim	Mod	carb	Str		Mn - weak	EPy		0.1		
LS16-60	19.7	22.8	SCH-i	SCH-lam-nu	Deformed oxidized "zebra stripped" orange and dark green foliated SCH-i with common D3 kink folds often 35 - 45 degrees tca; see photos; very gradational down hole contact with micaceous quartz rich but not discrete quartz bands more felsic unit below ~ 22.8 m.	lim	Mod					EPy		0.1		
LS16-60	22.8	32.4	SCH-i	SCH-yel	Very pale Muscovite - sericite quartz SCHIST (transitional to true felsic unit below) with silvery white muscovite / sericite in a grey / green quartz rock; foliation often not describable highly fractured discontinuous pitted fractured QV rounded lenses / pods with cubic 3-5 mm pits; can see D3 kink folds locally 45 degrees tca; most ductally deformed unit 28.3 - 32.4 m zone of increase chlorite patches and dots 22.8 - 32.4 m. 28 - 28.3 m zone of rounded QV fragments.	lim	Mod			Y					VG at 25.95 m - 1 spec in quartz lens; 1 mm spec on edge, 3 mm from cubic pyrite in quartz.	
LS16-60	32.4	32.6	QV Zone		Zone of two 5 cm sub parallel QV's with SCH host wall rock inclusion between veins (or two veins?); limonitic fractures. Very weak SCH-tig texture. White and dark green chlorite / sericite patches - "wormy" discontinuous lenses of quartz (or mica bands) boudinaged rootless quartz due to crenulation cleavage; local black Mn coated fractures - transition unit above fault with felsic quartz rich foot wall "rhyolite unit" below.; very contorted.	carb	Tr	lim	Str		EPy		0.1			
LS16-60	32.6	34.3	SCH-f	SCH-tig	Non typical SCH-f (fwf) (34.3 - 34.5 m) - fault - Pale yellow / orange FAULT gouge with 20% < 1 cm angular SCH-f or white QV breccia fragments (< 1 cm); common Mn coating rock fragments. (34.5 - 38.6 m) - Very quartz rich (non banded) pale silvery green Quartz - muscovite - sericite SCHIST. "foot wall" rhyolitic unit with abundant silvery very thin < 1 mm partings of muscovite / sericite with clear to very light grey non distinct quartz layers; low angle tca fractures coated with black Manganese; unit is pitted 5% up to 3 mm x 1.5 mm rounded and rectangular pits throughout; tight isoclinally folded discontinuous foliaform quartz < 2% of interval.	lim	Wk	mno	Mod							
LS16-60	34.3	38.7	SCH-f	SCH-yel	Non typical SCH-f (fwf); Very competent pale pale green felsic SCHIST with abundant muscovite / sericite cut by boudinaged like foliaform quartz stringers with wavy irregular lumpy contacts. Foliaform quartz locally has open space with euhedral crystal growth infilling open space.	mno	Wk					EPy		1		
LS16-60	38.7	48	SCH-f	SCH-yel	Non typical SCH-f (fwf) ; (48.0 - 63.35 m) Pale green felsic SCHIST with abundant muscovite / sericite partings in a quartz rich rock; quartz not in discrete bands and foliation and crenulation cleavage defined by mica bands; foliaform quartz is dirty white with some orangey ?feldspars gone to carbonate ??; QV's have wavy contacts and are discontinuous. 48.4 - 49.1 m x-cutting fracture parallel tca is Mn lined. 49.4 - 50.1 m Irregular orange bands of oxidation ?Rhyolite ???????? banding? 50.25 m kmk folding 15 degrees tca. 55.0 - 56.8 m Zone of concentrated white foliaform quartz. 58.2 - 58.4 m Zone of concentrated quartz / carbonate foliform veins < 2 cm wide with carbonate (?after feldspar) in quartz. 59.1 - 3 cm foliform QV 61.9 and 62.05 m two sub parallel < 3 mm rusty x-cutting fractures with rusty pyrite cubes clearly x-cutting highly deformed felsic SCH; fractures 75 degrees tca. (63.6 - 67.06 m) - Pale green felsic SCHIST as above; < 5% overall quartz as discontinuous deformed white foliform lenses < 2 cm wide; rusty cubic pyrite in local white quartz lenses especially where quartz is white and grey mottled as in 64.95 and 65.5m. E.O.H.	carb	Tr	lim	Tr			EPy		0.1		
LS16-61	0	3.1	OVB		Casing till 2.7 m, no core recovered. Dirty faulted material recovered while casing to 10' (3.05 m) pale tan colored with 60% rusty muscovite rich rx fragments.											
LS16-61	3.1	9.2	SCH-i	SCH-ptm	Orange / dark green oxidized Muscovite - sericite - quartz SCHIST-i with SCH-ptm texture; bleached coarse grained very mica rich highly contoured strips and bent patches of silvery green sericite as 1 cm pinching to 2 mm lenses and deformed bands; < 1% rusty cubic < 2 mm pyrite cubes along foliation; common fractured with FeOx coatings rare foliform quartz - rootless and truncated < 15 cm wide. This interval is strong SCH-yel altered as well.	lim	Str	ser	Str		EPy		2		5	
LS16-61	9.2	17.8	SCH-f	SCH-yel	(9.2 - 13.6 m) Less oxidized white / pale yellow / green very muscovite rich highly deformed unit; flaky coarse muscovite / sericite; local development of D3 crenulation 75 - 80 degrees tca here foliation varies between 0 - 25 degrees tca; 2 cm gouge at 10.5, upper contact 65 degrees tca. (13.8 - 17.8 m) White pale yellow (green) Muscovite rich SCHIST (same as 9.2 - 13.6 m) majority of interval has fractures sub parallel tca - rusty with clay due to movement; rare quartz boudins - intensely fractured < 1 cm wide lenses along foliation, < 2% euhedral pyrite in oxidized envelopes to low angle fractures +/- quartz.	lim	Str									
LS16-61	17.8	18.3	QV Zone		Milky white fractured QV with pits < 2 mm ad 20% oxidized host within fractured QV; 18.2 --> 18.3 m tan FeOx fault gouge with 40% rusty quartz veins.	lim	Str					EPy		1		
LS16-61	18.3	36.6	SCH-i	SCH-ptm	As well strong pervasive SCH-yel overprint. Light green with dark green bands - highly contorted Muscovite - quartz SCHIST; dark green wavy bands of chlorite? (possible phengite?) with yellowy muscovite + quartz - coarse grained micas; 19.5 - 19.8 m Fractured QV 1/3 of core running down foliation - wavy sub parallel tca. 32.0 --> 36.6 m Localization of strain with high competency gradient (quartz layers vs mica bands producing intensely plastically deformed chaotic texture; late shearing offsets folded quartz bas (shearing sets or rusty planes 40 --> 75 degrees tca - possible D3 kinkfolds 40 degrees tca.	ser	Str	lim	Mod		EPy		0.1			
LS16-61	36.6	37.4	QV		QV - milky white fractured 2% euhedral pyrite intense FeOx (pervasive) 20% wall rock in vein FW contact local 5% 1 mm cubic rusty pyrite in host rock.	lim	Mod					EPy		2		
LS16-61	37.4	47.3	SCH-i	SCH-ptm	Strong SCH-yel overprint; (37.4- 38.4 m) Pale green planar foliated sericite quartz SCHIST interval with 5% milky white foliaform fractured pinching QV < 2 cm wide along foliation. * 1 spec of VG - along mica bound near pyrite cube in rusty SCHIST at 37.65 m white cutting VG very thin and < 2 mm long. (38.4 - 39.6 m) - FLT orange FeOx Fault gouge with brecciated upper contact 40 degrees tca; 1 cm white foliaform QV is dragged into the fault and boudinaged at hanging wall. Lower contact broken, unit is 85% clay gouge < 5% quartz, rest SCH. (41.3 - 41.4 m) - FLT Crumbly rusty orange clay FAULT GOUGE. (41.4 - 46.5 m) FLT - Intensely broken interval ~ 40 --> 50.5 m with < 15 cm pieces of deformed boudinaged quartz sweats in a silky green sericite and quartz host commonly parallel or 10 degrees wavy foliation running down core axis; abundant limonite and < 1 cm crumbly gougy zones; common 2% euhedral rusty pyrite cubes. (46.65 - 47.3 m) FLT - same as interval 41.4 - 46.5 m; abundant sericite / muscovite with boudinaged discontinuous quartz layers.	lim	Str			Y	EPy		1			
LS16-61	47.3	48.5	QV		QV with 30% wall rock; vein intersected at a low angle to core axis (not true width); brecciated look with rounded white QV separated by mica.	lim	Str					EPy		2		

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
LS16-61	48.5	49.9	SCH-f	SCH-yel	(48.5 - 48.8 m) FLT - Yellow orange Fault Gouge; Broken contacts; < 2% white milled QV fragments (in gouge) < 5 mm wide; sericite rich SCH fragments < 2 cm2 in gouge. (48.8 - 49.9 m) Very pale yellowish (whitish) quartz rich, Quartz - muscovite SCHIST competent sucrosic interval lacking and quartz as foliform veins unit has < 1% 1 mm rusty pyrite cubes 48.8 - 48.9 m with hair width fractures of limonitic at various angles to core axis - gives core a brecciated look.	lim	Str				EPy		0.5					
LS16-61	49.9	50.3	QV		Zone of 80% white QV; HW contact and 1st 5cm is brecciated and cemented in limonitic gouge. 3% euhedral pyrite as rusty 2 mm cubes in fractures and along contacts with wall rock SCH in QV; quartz is white + clear (two phases).	lim	Str				EPy		3					
LS16-61	50.3	56.5	SCH-f	SCH-yel	Pale green very quartz rich Quartz - muscovite SCHIST; ?FW meta rhyolite "quartzite" unit as very competent foliated. 52 - 56.5 m interval of green very quartz rich sericite / muscovite SCH is cut by rounded discontinuous rusty QV? foliaform up to 15% of interval (local cubic pyrite in QV;s - ?angle of drill hole intersecting unit at oblique angle.	lim	Mod				EPy		0.1					
LS16-61	56.5	56.75	QV		White QV with limonitic interval fractures 1% cubic pyrite selvages, trace galena < 2mm spec in quartz near lower margin.						Gn		0.1					
LS16-61	56.75	59.3	QV Zone		Quartz vein rich fault breccia with white fractured QV's between 56.9 - 57.05 and 57.25 - 57.35 m plus rounded white QV fragments cemented in limonitic gouge up to 2.5 cm2 - interval has > 30% QV material SCHIST is grey green sericite rich locally coarse grained between QV segments of interval. 57.8 - 59.3 m - Brecciated SCH with 2% rounded QV < 1 cm2.	lim	Mod				EPy		0.5		Epy < 1%			
LS16-61	59.3	67.06	SCH-f	SCH-tig	SCH-f with varied SCH-tig texture with a strong SCH-yel overprint. (59.3 - 63.3 m) Back into unit that looks like top of hole (18.3 - 36.6 m) with very coarse grained chlorite discontinuous wisps and beds in a highly contoured interval with thick quartz segregations compared to mica/ chlorite local well developed crenulation cleavage ~ 50 degrees tca; 62.5 --> 63.3 m 4 mm wide late rusty fracture with tan clay infill runs 5 degrees tca. (63.3 - 64.0 m) FLT - orange rusty fault gouge rusty milled fragments of SCH. (64.0 - 67.06 m) SCH-f / FLT - Sheared deformed SCH (as in 59.3 - 63.3 m) with wispy discontinuous chlorite / sericite layers with common truncated foliform stringers < 2 cm wide; local brecciation throughout and 6 cm yellow orange gouge at E.O.H. At 66.2 m Galena, Chalcopyrite + pyrite.	lim	Mod	ser	Str		EPy		1			2		
LS16-62	0	3.2	OVB		Casing - no core recovered - till 3.05 m; Rubble recovered during casing.	lim	Str											
LS16-62	3.2	9.5	SCH-i	SCH-tig	SCH-i with a weakly developed SCH-tig (not in whole interval). Green chlorite / sericite quartz SCH unit that has distinctive ragged carbonate / chlorite spots especially 5.9 --, 9.1 m; unit has common D3 kink folds locally developed to D4. 1.5 cm wide extensional zones 45 - 50 degrees tca. 4.57 m - 5 cm wide light brown out of place CAVED material during drilling process. 6.0 - 8.5 m distinctive chlorite / ?carbonate spotted texture with dark green 3-5 mm x 2 mm chlorite wisps and clots in a pale green (mica) + sericite deformed segregations; < 1%shiny ?syngenetic < 2 mm pyrite cubes along foliation locally. 8.5 - 9.1 m - oxidized more silica rich "HW" to fault, interval is intted with minor broken 2 cm2 x 3 mm quartz vein chips @ 8.8 m. (9.1 - 9.5 m) - FLT - zone of completely broken with gouge, chips < 1cm3 of crumbly FeOx rich SCHIST + ~30% white QV fragments.	lim	Str				EPy		0.1					
LS16-62	9.5	21.7	SCH-i	SCH-lam-nu	(9.5 - 12.65 m) - Orange very pale green sericite rich SCH-lam? very pitted and oxidized with similar width quartz sericite segregation like the prospective SCH-lam unit near Boulder Lode; unit is distinctly quartz sweat poor with Mn (and graphite @ 11.3 m). 11.55 m 2 cm wide orange discrete minor fault plane with FeOx crumbly SCH milled fragments; sharp 30 degrees TCA contacts. (12.65 - 12.9 m) - FLT - pale yellow faulted oxidized SCH-i with 10% clay gouge; broken contacts. (12.9 - 13.2 m) oxidized pitted SCH-lam? very sericite rich, pitted and crenulated; thinly laminated. (13.2 - 13.3 m) - FLT - dark earthy orange crumbly disintegrated rock into < 4 m sized pieces; oxidized sulphides? (13.3 - 21.6 m) - Grey green evenly laminated SCH-lam with minor epidote at ~ 15 m; rare shiny cubic 1-2 mm pyrite along foliation. 15.8 - 16.1 m Zone of 10% white foliform veins < 1.5 cm. 19.2 - 21.6 m Common very rusty broken fractures. Poorly developed Fault zone 19.2 --> 31.8 m causing oxidization of host.	ser	Str	lim	Str	Strong SCH-yel overprint; Graphite local trace to weak; MnO local moderate.	EPy		0.5					
LS16-62	21.7	31.7	SCH-i	SCH-lam-nu	Oxidized thinly laminated grey SCH = quartz segregations with common kink bands; oxidized pits perhaps pyrite along foliation but hard to be sure; 3 x 2 mm rectangles filled with FeOx possibly feldspars originally? 21.7 - 22.1 m Broken rusty FeOx coated SCH fragments. 24.4 - 24.6 m Faulted rusty, 10% gouge zone. 26.2 - 26.8 m Broken faulted with 0.4 m LOST 29.9 - 31.7 m Pale yellow clay altered rusty zone pitted and crumbly with rusty discontinuous ?pyrite trains now FeOx; ?pits near 31 m possible feldspars --> clay + FeOx.	ser	Str	lim	Wk	Strong SCH-yel overprint; Local strong limonite staining.	EPy		0.5		Epy < 1%			
LS16-62	31.7	52.2	SCH-i	SCH-lam	Grey green "textbook" laminated into equi-thickness layers of quartz + mica with pervasive carbonate and abundant pyrite trains along foliation; minor very late ragged x-cutting thin carbonate veinlets along shears; NOTE: Matt G thought this area was prospective for fine grained Au compared with previous Au at LS. 37.2 - 38.3 m - Zone of light pink carbonate, possibly rhodochrosite; minor epidote as well. 40.4 - 42.3 m - Bands of distinctive green fuchsite / mariposite along foliation quartz sweat selvages); area is pitted with common ankerite and clay. (42.3 - 45.7 m) FLT - pale yellow earthy orange clay gouge + crumbly clay rich SCH fragments; 42.3 - 42.5 m very rusty with cubic rusty FeOx after py < 5% locally; broken contacts 43.3 --> 43.4 m Zone of 50% white 2 cm3 QV fragments in fault. (45.7 - 52.20 m) - Grey laminated carbonate sericite (epidote) SCHIST somewhat more deformed with distinct increase in very white foliform quartz lenses between 46.3 --> 52.2 m. 47.7 --> 52.5 m broken rusty fractures with abundant 2 mm pyrite along foliation locally with discrete pyrite trains. 50.7 --> 52.2 m spotted texture of ragged rounded blebs and wisps along foliation.	carb	Str	lim	Wk		EPy		4		0.5			
LS16-62	52.2	58.5	SCH-i	SCH-lam-nu	Paler green transition to FW (meta rhyolite) unit with distinctly more white foliaform quartz veins / lenses; 53.4 m local 6 mm pyrite cubes plus pyrite bands by 54 m, back into more classic rhythmically banded laminated schist (quartz / mica thin bands) + pyrite. (57.4 - 58.5 m) Lens of massive pale green FW meta rhyolite with light green sericite / muscovite, competent unit, trace pyrite.	carb	Mod	lim	Wk		EPy		2		2			
LS16-62	58.5	64.65	SCH-i	SCH-tig	Grey green SCHIST-tig with rhythmic compositional layers of quartz / mica but deformed with common crenulation cleavage developed.	carb	Wk	lim	Tr		EPy		1.5					
LS16-62	64.65	65.7	SCH-i	SCH-lam-nu	Very contorted transition to SCH-f "fw quartzite" below <1% disseminated pyrite cubes mostly rotted to goethite/ limonite. "? tiger texture" or orange and green stripes.	carb	Wk	lim	Mod		EPy		0.5		EPY < 1%.			
LS16-62	65.7	102.11	SCH-f		(65.7 - 66.8 m) - FLT - orange pale green FeOx gouge with SCH-f felsic; contacts are broken. (66.8 - 102.11 m) - Pale pale green sericite / muscovite rich SCHIST-f; foliated; oxidized locally broken, becomes more massive downhole? where quartz rich compositionally distinct bands become diffuse with pale green sericite / muscovite - meta rhyolite unit. 73.7 - 74.3 m - Gougy SCH-f oxidized zone sharp LC 70 degrees tca 75.0 - 75.45 m - Gougy broken SCH-f oxidized with Mn. 77.7 - 77.95 m - Gougy / decomposed SCH-f (non limonitic). 78.5 - 78.9 m - flecs of graphite along foliation. 85.7 - 86.3 m - Gougy shattered SCH-f sharp lower contact 85 degrees tca. 94.15 - 94.18 m - 3 cm yellow gouge with sharp LC 70 degrees tca. @ 98.7 m crenulation cleavage D3: 30 degrees tca.	lim	Wk	mno	Wk		EPy		0.5		Epy < 1%.			
LS16-63	3.05	3.4	OVB		Chips of primarily beige with light rust mix of coarse grained - deformed sericite (muscovite) +/- chlorite SCHIST and milky white quartz. Largest piece ~ 5 cm. Rubbled milled core.	lim	Wk											
LS16-63	3.4	15.98	SCH-i	SCH-yel	ser (mus) qtz SCHIST - local weak rust, silvery grey ser (musc) - chl qtz SCHIST; and fine milky white - grey qtz crush / broken core. Largest piece of core 5 cm. (6.50 - 15.98 m) - Ser - chl (qtz) SCHIST +/- deformed laminations +/- graphite SCH. Pale beige, grey with some rust. General texture grades from a pale beige fine deformed folae moderately oxidized with lim / jarosite (6.50 - 7.50 m); to a foliated - mottled grey sub interval peppered with fine (1-2 mm) irregular lim - Fe cal patches chl - ser (qtz) SCH (7.50 - 8.30 m); to a deformed finely foliated light beige ser (chl) with increasing local shiney euhedral (cubic) "cluster trains" of py along folae (laminations) (8.30 - 12.30 m); a dark grey graphitic / carbon rich chl - ser (qtz) SCH (12.30 - 12.60 m); and a rusty, finely informally foliated, pyrite - limonite specs along folae with slight patch increase of graphite / carbon and def towards the bottom of this ser (chl - qtz - pyrite / limonite) sub interval (12.60 - 15.98 m). This is a transition to the SCH-lam unit some detailed notes for the sampled sub intervals. Sharp limonite lower contact at 70 degrees tca: 6.50-7.50 m - rusty dis trains of lim / mnO2 along folae. 7.50-8.30 m - mottled grey deformed chl - ser folae, rare py along folae 8.30 - 12.30 m - grey quartz sweat at 8.50 m; 3 cm wide foliaform. SCH-lam; deformed; increase in py along folae (fig, eu, striated); increased 'pitting' where py --> lim and weathered out. 12.3-12.6 lim planar foliated quartz SCH with very fine grained disseminated euhedral pyrite "cluster trains" along fine folae. Texture is mostly planar comprising uniform fine alternating folae of light grey siliceous rich folia with darker brown - grey chlorite - sericite +/- limonite and pyrite folae. One sub-interval (24.0 - 24.80 m) contains fine disseminated black magnetite grains with the pyrite. Texture blends from fine folae to streaky locally. Local sub intervals with overprinted, pitted rust specs (1 mm) within the sericite (chlorite) quartz SCH which is generally light beige - grey. Interval has increased crackle - fracture milky white, deformed quartz sweats towards lower contact. Lower contact at 85 degrees tca. (15.98- 16.13 m) Pale beige rust silica flooded upper contact; parallel irregular fracture at 55 degrees tca fracture coarse grained x/n sericite along them - quartz flooded in between fine pitted rust specs along fracture / foliation - 5%. (16.13 - 24.0 m) - Large interval - planar foliation - laminations to streaky texture; increase pyrite / limonite along foliation. Fine to medium grained sericite - chlorite quartz SCH. Locally fractured. (19.75 - 20.10 m) - black MnO2 on fracture surface +/- lim / jar + 1 small x-cutting 0.5 cm quartz veinlet. (24.0 - 24.4 m) Grey slightly washed texture with 1% fine grained disseminated magnetite grains. (24.4 - 24.8 m) Grey rust with 3% rust specs +/- pyrite and trace disseminated black magnetite.	lim	Str				EPy		0.1	APy	0.1			
LS16-63	15.98	28.47	SCH-i	SCH-lam	Deformed quartz sweats + Sericite chlorite SCH; Compositional off white massive quartz sweats (70-80%) with def, contorted green - grey sericite (chlorite) in between. Deformed interval. Irregular fractures with limonite / jarosite. No visible sulphides. (Deformed SCH-lam).	carb	Tr	lim	Wk		EPy		0.1			10		
LS16-63	28.47	29.63	SCH-i	SCH-lam-nu	Alternating rhythmical composition folae Sericite - chlorite - quartz SCHIST. Beige - yellowish grey alternating wavy compositional folae of off white - light grey silica quartz and rust - green - grey folae (2-3 mm thick) chlorite - sericite - limonite; weak oxidization with limonite / jarosite along folae. Micas are fine grained to medium grained. No significant sulphides. Foliafrom, cracked lenses of milky white / light grey quartz 5- 10% of interval. Lower contact at 40 degrees tca. (30.94 - 42.10 m) FLT - Pale rust - beige oxidized interval of mixed gouge, crush and broken core - primarily rhythmic compositional folae - sericite quartz SCH. Rare milky white quartz chips. (30.94 - 33.53 m) - Pale beige and rust broken sericite SCH core + minor crush. (33.53 - 36.58 m) - Pale beige rust with minor off light grey and rare milky white quartz chips, 20% pale light orange - beige gouge. (36.58 - 39.62 m) As above; + some minor SCH-lam deformation. (39.62 - 41.15 m) - 50% broken core - SCH-lam; slightly more greenish; chlorite +/- epidote - trace pyrite disseminated along folae and rock crush + 20% oxidized gouge. (41.15-42.10 m) as above with 20% SCH-lam deformed competent core at FW. FW contact broken but ~ 70 degrees tca.	lim	Wk									70		
LS16-63	29.63	42.2	SCH-i	SCH-lam	Alternating rhythmical composition folae Sericite - chlorite - quartz SCHIST. Beige - yellowish grey alternating wavy compositional folae of off white - light grey silica quartz and rust - green - grey folae (2-3 mm thick) chlorite - sericite - limonite; weak oxidization with limonite / jarosite along folae. Micas are fine grained to medium grained. No significant sulphides. Foliafrom, cracked lenses of milky white / light grey quartz 5- 10% of interval. Lower contact at 40 degrees tca. (30.94 - 42.10 m) FLT - Pale rust - beige oxidized interval of mixed gouge, crush and broken core - primarily rhythmic compositional folae - sericite quartz SCH. Rare milky white quartz chips. (30.94 - 33.53 m) - Pale beige and rust broken sericite SCH core + minor crush. (33.53 - 36.58 m) - Pale beige rust with minor off light grey and rare milky white quartz chips, 20% pale light orange - beige gouge. (36.58 - 39.62 m) As above; + some minor SCH-lam deformation. (39.62 - 41.15 m) - 50% broken core - SCH-lam; slightly more greenish; chlorite +/- epidote - trace pyrite disseminated along folae and rock crush + 20% oxidized gouge. (41.15-42.10 m) as above with 20% SCH-lam deformed competent core at FW. FW contact broken but ~ 70 degrees tca.	lim	Str				EPy		0.1			10		

hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-63	42.2	47.54	SCH-I	SCH-lam	white to light grey quartz and light grey-green chlorite / sericite. The folae are wavy or wavy - deformed. Compositional folae are thin; typically 1 mm thick. Very fine grain shiny euhedral pyrite cubes are primarily disseminated along folae with chlorite / sericite, lesser to x-cutting silica stringer (< 1mm wide). Generally the wavy deformed folae are at steep - moderate angles tca. FW broken; noted calcite alteration along fracture / foliation. (43.66 - 44.20 m) FLT - grey broken core - 80% + fine crush and gouge - 20%. Broken core is SCH-lam deformed with up to 2% fine grained, euhedral, disseminated pyrite. Predominantly along fracture. (44.20 - 46.96 m) Alternating rhythmic deformed folae Sericite - chlorite quartz SCH with pyrite. Very similar to interval (42.20 - 43.66m); Grey pyritic (2-3%) alternating, rhythmic compositionally folae deformed. Folae generally at moderate to steep angles. Folae 1-3 mm thick of light grey quartz and green - grey chlorite - sericite +/- pyrite. Pyrite as shiny euhedral, fine grained, cubes primarily along folae. Rare low angle fractures cross cut folae but do not seem to have sulphides. Folae moderately calcareous. 45.00 - 46.96m - decomposed FW; sharp contact but broken. Lower contact ~ 65 degrees tca. (46.96 - 47.54 m) FLT - HW contact is a pale yellow earthy gouge becoming broken core (SCH-lam - deformed) towards FW. Minor milky quartz chips.	carb	Mod	lim	Tr								
LS16-63	47.54	53.35	SCH-I	SCH-lam	Alternating rhythmic deformed folae Sericite - chlorite - quartz SCH with pyrite. Very similar to interval (44.20 - 46.96 m) Noted fine "D4" kink lines oblique to fine folae; rake generally at 50 - 70 degrees tca; kink lines generally at 30 degrees tca. A large ribbon banded foliaform quartz veinlet 8 cm wide (48.34-34.54m). Sub intervals of weakly broken and minor slip gouge; weak oxidation. (47.54 - 46.34 m) 4+ very fine fractures (kinks in folae - D4?) at 30 degrees tca, wavy folae at 40 - 60 degrees tca. Weak calcite alteration. (48.54 - 50.0 m) Shallow low angle tca irregular fracture coated in limonite stain SCH-lam - deformed locally cracked. (50.0 - 52.88 m) Increase quartz sweat (15%); decreasing pyrite (trace); limonite slip planes toward lower contact; lower contact ~ 50 degrees tca. (52.88 - 53.35 m) - FLT - small fault: broken core + 15% orange rust clay - sericite gouge. Broken core is a chlorite rich (darker) SCH-lam deformed. Trace pyrite (euhedral, shiny cubes) in SCH-lam deformed.	carb	Wk	lim	Wk		EPy		0.1		10		
LS16-63	53.35	56.81	SCH-I	SCH-lam-nu	(53.35 - 55.77 m) Alternating rhythmic deformed foliation Chlorite - sericite quartz SCH - trace pyrite. Moderate grey alternating rhythmic folae of light (grey) quartz and dark chlorite - sericite with trace disseminated pyrite along fine folae. Folae are wavy to contorted with 15-20% deformed / folded (open) quartz boudin sweat, lenses. Some are two-tone in color - light grey and off white - 2 phases of quartz? (55.77 - 56.81 m) FLT - Oxidized - rust orange broken SCH-lam deformed core (50%) + rust orange clay - earthy gouge. Trace disseminated euhedral (shiny) fine grained pyrite in SCH-lam deformed broken core.	carb	Mod	lim	Wk		EPy		0.1		20		
LS16-63	56.81	65.65	SCH-I	SCH-lam-nu	Interval containing a large foliaform quartz sweat (8 cm wide at 60.17 m); continuing of depth through wavy - deformed sequence of uniform rhythmically thin alternating light and dark folae with local increase of foliaform white quartz sweat and coincident oxidation. The folae for the description above is steep TCA - 70 to 80 degrees tca. Confining at depth towards the LC of this interval becomes locally paled (chl - ser) + increasing contortion of folae, increase oxidation, and an alteration about vugs near the LC fit contact that include: dark grey - tinged blue blemishes and strain in vugs in sub-intervals associated with a distinctive yellowish green oxidation; possibly of young hydrothermal alteration (ie arsenic - stibnite - scordite ??). 56.81 - 57.9 sinusoidal - wavy folae 60 - 80 degrees tca. 57.91 - 58.43 broken, qtz sweat rich sub-interval with possible "D4" kink fracture + bl bk fine weathered sulphide (As - Sb?) + py on cross cutting fracture surfaced. Bottom of sub-interval is a 5 cm thick foliform qtz sweat. 58.43-59.85 Oxidized zone with inc. foliaform qtz; orange - rust contored thick folae/ laminations. 59.85 - 60.12 Small section of contorted / deformed SCH-lam; inc chl content. 60.12 - 60.32 Small section includes 6 cm wide qtz sweat, foliation is 70 degrees tca. 60.32 - 61.80 SCH-lam deformed (wavy warped) folae at 60 degrees tca with numerous fine low angle black (carbon rich) fracture at 20 degrees	carb	Tr	lim	Wk		EPy		0.1				
LS16-63	65.65	68	SCH-I	SCH-yel	(65.0 - 65.65 m) SCH-I with a strong SCH-yel overprint; FW sub-interval. Fold drag folded into lower angle's tca; 0-45 degrees tca. Crackle fracture at lower contact (broken) with distinct yellow (greenish) scorodite? and pitted and stained with altered fine grained sulphides - ars? Dark blemished / stain could also include carbon: lower contact is crumbled but appears at high angle tca. (65.65 - 66.43 m) - FLT - very light pale beige to cream colored gouge + fine crush; local very fine quartz crush - grey blemish + very fine grained, euhedral pyrite association. Local limonite - rust and jarosite stain. Pale gouge makes up ~ 85% of material; 15% crush upper contacts and lower contacts broken. Intervals of changing altered - oxidized and altered - sericite (hydrothermal altered) or orangey - rust and greenish grey colors, respectively. Folae become more heterogeneous with irregular quartz sweat lenses; increase oxidation, decreased pyrite and a 20 cm sub-interval of a "tiger textured" chlorite - wispy SCH-F transitional lithology (just before the FW fault contact. (66.43 - 68.00 m) - Similar to SCH-lam but decreasing pyrite and somewhat transitional to a more felsic composition. Local black - blue - grey (subtle) blemishes coincident with foliaion - possible carbon rich or sulphide rich difficult to tell. Folae are fine in this sub interval. (68.0 - 69.81 m) - Rusty oxidized heterogeneous deformed qtz sweat - locally contorted / boudined; some trace very fine grained py associated with fine pitting along folae + limonite. (69.91 - 70.03 m) "tiger texture" chl - ser - qtz SCH; discontinuous dark green lenses and wisps (15 x 2 mm avg.) of chlorite contrasting to much thicker (2-10 mm) of white - cream qtz rich compositional folae. (70.05 - 72.13 m) FLT - mixed cream colored gouge; deformed ser (chl) qtz SCH, broken core (avg large pc ~ 30 cm); avg size 4 cm; LC is broken but appears steep. (72.13 - 73.15 m) Brittle and ductile deformation Chl - ser qtz SCH. Noted increase in crackled brittle - deformation qtz sweat with lim on fracture fill. Heterogeneous mix of fine to moderate folae (2-10 cm) and yet Casing to 2.6 m; double ground rubble recovered doing casing including 3 cm3 QV at start of hole.	lim	Mod	ser	Str		EPy		0.1				
LS16-63 LS16-64	68 0	73.15 2.8	SCH-I OVB	SCH-tig	Pale yellow alteration causing bleaching and removal of mafics in mica rich surosic schist; ?hydrothermal alteration near faulting? of same host (SCH-lam deformed); interval is pitted with rusty fractures. 4.4 - 4.5 m - broken intensely rusty FeOx coated fracture zone. 4.85 - 5.0 m - Broken pitted rusty fracture zone.	lim	Str	ser	Str		EPy		0.1		20		
LS16-64	2.8	5	SCH-I	SCH-yel	(5.0 - 5.3 m) - grey green laminated compositional bands however deformed and pitted oxidized, Mn on FW, minor pyrite common quartz lenses. (5.3 - 5.5 m) - FLT - orange oxidized pitted SCH host with gouge. (5.5 - 8.6 m) - Grey green sericite rich medium to coarse grained deformed with 10 cm patches of well laminated spotted compositional layers of quartz and mica (SCH-lam); crenulation cleavage often 45 degrees tca. 7.4 - 8.6 m pitted oxidized with dull black Mn. QV + FLT; 20% orange gouge and broken schist fragments.	lim	Mod				EPy		0.1		2		
LS16-64 LS16-64	5 8.6	8.6 9	SCH-I QV	SCH-lam-nu		lim	Str	mno	Wk		EPy		0.5		Epy < 1%		
LS16-64	9	10	SCH-I	SCH-yel	Pale yellow (green) altered silvery SCH-lam deformed ?hydrothermal alteration (mafic depletion?) near FLT/ veining; gradational lower contact. Grey green sericite rich medium grained compositional quartz / mica bands / laminations thin but deformed and not of consistent width; abundant irregular foliform quartz.	lim	Str	mno	Mod								
LS16-64	10	13.65	SCH-I	SCH-lam-nu		carb	Wk	lim	Wk	MnO - moderate.	EPy		0.5		Epy < 1%.		
LS16-64	13.65	15	SCH-I	SCH-yel	Oxidized pale yellow alteration zone; very pyritic, pitted with sucrosic texture to quartz rich unit (mafics bleached out < quartz veining ad fracturing at ~ 14 m; gradation lower contact; up to 10% fine yet euhedral shiny pyrite cubes as crude trains along foliation in pitted sucrosic unit especially 14.8 - 15 m; fractured pitted with rusty pyrite discontinuous quartz veining in pyritic SCH host from 13.65 - 14.4 m.	lim	Str				EPy		10				
LS16-64	15	16.7	SCH-I	SCH-lam	Oxidized pale green ?hydrothermally oxidized mafics driven out of mica around fractures with rusty broken with QV at 15.8 and 16.6 --> 16.7 m.	ser	Mod	lim	Str	Moderate SCH-yel overprint.	EPy		2				
LS16-64	16.7	32.25	SCH-I	SCH-lam	Same as above unit but without SCH-yel alteration. Grey thinly laminated compositional layers of quartz and mica alternating with weak pervasive carbonate; common crenulation cleavage developed; patchy. 21.8 - 22.6 m SCH-yel altered and oxidized interval of SCH-lam, very rusty with intense FeOx goethite pitted ad boxwork texture 22.3 - 22.5 m. 25.46 --> 25.55 m - 9 cm wide QV foliaform 25.55 - 32.25 m - Patchy very late white ragged carbonate. 29.7 --> 32.25 m - spotted texture porous FeOx.	carb	Mod	lim	Wk		EPy		4		Epy 3-5%.		
LS16-64	32.25	39.2	SCH-I	SCH-lam-nu	Paler grey green than intervals on either side with common discontinuous lenses of QV foliaform / contorted; pyrite as shiny cubic trains and semi massive patch @ 38.95 m (20% locally); patches of spotted texture dark green chlorite clots. 36.71 --> 36.8 m - 9 cm wide white Mn fractured QV along foliation. 38.95 --> 39.03 m - Zone of fractured white (non-limonitic ?QV sweat with semi massive pyrite curdely along upper contact; 4-5 diffuse specs of VG in quartz proximal to shiny cubic pyrite. 40.7 m - 3 cm zone of white highly deformed, isoclinally folded quartz sweat with black chlorite wisps rimmed by green epidote - unusual concentration of chlorite / epidote. *VG 4 - 5 specs with local 20% pyrite in quartz in semi massive pyrite patch - 38.95 m.	carb	Wk	lim	Wk	MnO - weak to moderate. Epidote moderate.	Y EPy		1		20% local pyrite near 4-5 VG specs.		
LS16-64	39.2	55	SCH-I	SCH-lam	Planar foliation, Dark grey green "classic" uniform compositional thin layers of quartz alternating with mica; locally spotty texture with drastic decrease in foliform quartz; abundant epidote; zones of pervasive ?primarily carbonate ?dolomite. 46.0 - ~ 52.0 m - Magnetite euhedrons < 3 mm + flatten laths along the foliation ?mushketovitz? phengite - acicular needles on edge of quartz sweat.	carb	Mod	lim	Wk	Epidote - moderate	EPy		5		1		
LS16-64	55	56.9	SCH-I	SCH-lam-nu	Paler green than above with non uniform quartz compositional layers vs sericite rich layers (quartz layers up to 1 cm wide wavy deformed, local spotting of chlorite. 56.0 -> 56.9 m Broken oxidized minor fault zone pitted with Mn coated broken SCH-lam-non uni.	carb	Tr	lim	Wk	Epidote - 5%.	EPy		2		2		
LS16-64	56.9	63.9	SCH-I	SCH-lam	Grey sericite rich SCH-lam; abundant epidote with local blebs of magnetite, shiny pyrite cubes sub rounded and is interstitial to magnetite blebs up to 2 m across; magnetite also occurs along foliation ?puesdomorphing of being altered to / by chlorite.					Magnetite - 1%.							
LS16-64	63.9	67.8	SCH-I	SCH-lam-nu	Washed out silica flooded SCH-lam non -uni transition into SCH-tig unit below; interval is rusty with thin late FeOx fractures sub parallel tca; common 1 mm pyrite cubes along foliation and associated with chlorite selvages to deformed quartz sweat.	lim	Wk	sil	Str		EPy		0.5		Epy < 1%.	5	
LS16-64	67.8	72.6	SCH-f	SCH-tig	Weakly developed SCH-tig texture; Zone of very coarse grained wispy books of chlorite sitting in wavy banded bleached sericite SCH; transition to SCH-F FW meta-rhyolite blocky unit below. 69.81 - 69.9 m - QV 4 cm wide and quartz flooded ?foliaform patchy at upper contact. Classic orange and dark green chlorite banded / wispy "tiger" texture 70 - 72.6 m.	lim	Mod				EPy		0.5		Epy < 1%.		
LS16-64	72.6	103.63	SCH-f		(72.6 - 77.6 m) Green more massive yet foliated sericite rich FW rhyolite competent unit wavy "stylotitic" deformed white foliaform quartz. (77.6 - 82.5 m) FLT - oxidized orange limonitic foliated quartz rich SCH-F with black Mn on fracture - low angle tca; gouge < 2 cm and thinly coating fractures; core is broken; <1% pyrite euhedrons along foliation, decreases down hole. (82.5 - 83.4 m) - Felsic foot wall unit only foliated at low angle to core axis due to faulting above, minor boudinaged quartz sweat discontinuous along foliation. (83.4 - 83.9 m) - FLT / ?QV - broken gougpy pale green SCH-F with 0.5 m LOST core plus 2 cm3 white quartz rubble. (83.9 - 103.63 m) - Large interval of silky green sericite quartz rich FW meta rhyolite to end of hole; patchy broken zones with pyrolusite coating fractures quartz sweat generally have very wavy contacts and quartz has a white phase and a grey/ clear phase (doesn't fizz with HCL and is very hard.	lim	Mod	mno	Wk		EPy		1		3		
LS16-65	0	3	OVB		Casing to 2.6 m. Broken rubble OVB recovered while casing; pale yellow / green SCH-yel altered SCH-lam, oxidized and bleached.	lim	Str										

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-65		3	3.8	QV	Zone of 80% milky white QV; 3.0 -> 3.6 m - 3 mm sized QV rubble oxidized plus 0.3 m LOST, gougy and FeOx.	lim	Str					EPy		0.1			
LS16-65		3.8	7	SCH-i	Pale green coarse grained sericite uniform banded SCHIST (altered hydrothermally near veining?) trace euhedral 1 mm pyrite along foliation low angle tca.	lim	Str					EPy		1		1% locally 6.7 - 7.0 m.	1
LS16-65		7	7.6	QV	Rusty white QV with 9 cm FeOx fault gouge along upper contact, broken. FLT - orange iron stained bleached SCH-yel hydrothermally altered uniform banded SCH-lam. 7.6 -> 7.9 m gouge intensly broken pitted SCH-yel fragments, FeOx filled pits. 9.0 -> 9.1 m 10 cm broken shattered FeOx SCH-fragments. 9.6 -> 10.45 m Zone of porous pitted Mn rich altered and clay rich core; dirty brown / black colored.	lim	Str					EPy		0.1			
LS16-65		7.6	10.45	SCH-i	SCH-lam non uni highly deformed yet laminated; epidote blebs along foliation. 11.5 -> 12.0 m Zone of common D3 crenulation cleavage 35 degrees tca; SCH-lam sub interval. 12.6 -> 13.1 m Mottled zone of Mn and FeOx highly crenulated, loose well defined foliation. 14.0 -> 14.3 m Spotted (3 mm chlorite clots) texture SCH-lam.	lim	Str	mno	Mod			EPy		0.5		Epy < 1%.	
LS16-65		10.45	17.1	SCH-i	Light grey / yellow bleached laminated SCHIST; silica flooded, hydrothermal alteration to QV below.	lim	Wk					EPy		2			
LS16-65		17.1	19.6	SCH-i	Milky white with orange limonitic interval fractures, deformed / faulted lower contact.	ser	Str	lim	Str	Strong SCH-yel overprint.		EPy		1			
LS16-65		19.6	20	QV	FLT - orange intense FeOx crumble zone minor gouge highly deformed SCH-lam.	lim	Str										
LS16-65		20	20.5	SCH-i	Grey uniform banded pyrite rich folia with common epidote sitting in bends due to crenulation D3 cleavage; common 20 - 30 cm zones of spotted texture due to chlorite blebs 1-4 mm in size; minor rootless white quartz lenses. 23.0 -> 23.5 m Chlorite spotted texture. 25.0 -> 26.0 m Zone of well developed D3 crenulation cleavage 20 - 40 degrees tca. 26.1 -> 27.2 m Rusty pitted zone dirty orange laminated SCHIST; 10% FeOx pits. 28.7 -> 28.8 m Dull blue black ?chlorite going to serpentine? thin stringers and clots. 33.2 -> 38.5 m Oxidized pitted SCH-lam HW to QV, minor open space cavities; 2 cm grey faulted gouge at 34.7 m.	lim	Mod	carb	Wk			EPy		3		Epy 3-5%.	2
LS16-65		38.5	38.7	QV	Mottled white and grey fractured and locally brecciated QV with 8 x 5 mm lath of white quartz x-cutting foliation at upper contact; rusty fractures in quartz. *1 spec of VG at 38.7 m < 1 mm on lower contact selvage in FeOx with Mn coated fractures / contact with FW SCH-lam.	lim	Str				Y	EPy		0.1			
LS16-65		38.7	44.9	SCH-i	Grey green very uniform thinly laminated SCHIST with common rusty fracture	carb	Wk	lim	Mod	Carbonate weak to moderate, MnO trace.							
LS16-65		44.9	45.2	QV	Milky white fractured QV with thick limonite; 3% euhedral rusty pyrite along FW contact, no sulphide in vein observed.												
LS16-65		45.2	47.24	SCH-i	Grey green somewhat more plastically deformed than interval (above QV but still in nice SCH-lam with pyritic zones along foliation; slight increase in foliform white quartz wedge shaped and discontinuous; zone of increased chlorite blebs and wavy stringers along foliaform white 1-3 cm quartz stringers. 46.85 -> 46.92 m Zone of angular quartz wedge with patch (2 x 3 cm) of serpentine; quartz wedge has 8 mm wide mariposite / fuchsite lens. 46.0 -> 47.24 m Common spotted texture (chlorite clots) with pyrite. E.O.H.	carb	Wk	lim	Tr			EPy		5		Epy 5-7%, fuchsite - trace.	
LS16-66		3.3	3.5	OVB	10' of casing at top of hole. Small interval of rubbled core; 40% milky rubbled quartz pieces - white - possibly foliaform; no sulphies, average size 5 cm across.	lim	Str										
LS16-66		3.5	8.75	SCH-i	SCH with 0.5 - 1 cm deformed compositional layers/ folae of light off white (with rust tint), brittle - ductile quartz rich layers alternating with darker (green - silvery - rust) ductile sericite (muscovite) - chlorite layers. Core locally broken and strongly oxidized with limonite and lesser MnO2. Light layers average 0.5 cm thick. Local small slip planes between some broken / locally bleached core. (3.50 - 5.92 m) - Rusty contorted brittle deformation locally slipped (sheared - fine) SCH. Limonite along shear fracture (6.0 m - shear fracture at 40 degrees tca). Trace limonite (after pyrite) medium green - rare. (5.92 - 6.20 m) - Small cream colored fault gouge with bleached, hydrothermally altered SCH on HW side; fault appears steep TCA. (6.20 - 7.15 m) Strongly contorted folae; local crenulation (S3) fabric developed. Foliation at all angle TCA. (7.15 - 7.36 m) Pale orange rust gouge + broken oxidized SCH. Strong limonite after pyrite, euhedral pits (trace). (7.36 - 8.33 m) Strongly oxidized sub-interval most of folae "bands" steep tca. Lower contact marker by a small 1 cm wide brittly deformed white quartz sweat. (8.35 - 8.51 m) Bxa - shear breccia oxidized. Strongly oxidized, rust - orange, crackle - shear breccia; clasts (70%) are sub-rounded (average 3 cm across) oxidized SCH; matrix (30%) limonite - clay - mica fine grained. Clasts have trace limonite after pyrite, euhedral impressions (fine grained). (8.51 - 8.75 m) FLT / deformed compositional bands / folae of off white quartz rich folae (average 8 mm) brittle - ductile deformation - some rootless folds, and ductile green - grey discontinuous lenses / wisps of chlorite - sericite. Local "tiger texture" (8.75 - 8.90 m) SCH-tig noted in upper half of interval with 3 cm of slip gouge in the middle; bottom half of interval is deformed quartz sericite (muscovite) - chlorite SCH. (8.75 - 8.90 m) - SCH-tig; (quartz - chlorite - sericite) chlorite has distinct wispy texture. (8.90 - 9.22 m) - Pale beige rust deformed folae (quartz rich - discontinuous lenses / bands) deformation at steep angle tca. (9.22 - 10.57 m) FLT - pale beige and light rust micaceous gouge (20%) + sericite (muscovite) (quartz) SCH (70%) + off white quartz chips - quartz appears to be primarily foliform. (10.57 - 12.65 m) - Strongly deformed (brittle - ductile) Quartz - chlorite (sericite / muscovite) SCH - oxidized. Very similar to (3.50 - 8.23 m) Foliation variable but mainly ~ 90 degrees tca. 3 small quartz 'losenges' 5 x 3 cm at HW of this interval; white, cracked / with weak limonite stained on fractures. Locally more oxidized on broken surfaces. Local very coarse grained "greasy" white mica -> talc? (this interval spilt by a small slip plane (3 cm wide gouge), lower half of interval is very Broken chips; largest piece 6 cm across; milky white weak fracture with local limonite stained on fracture surfaces.	lim	Str					EPy		0.1			
LS16-66		8.75	12.65	SCH-i	(12.82 - 13.40 m) Oxidized uniform rhythmic compositional quartz - sericite (chlorite) SCH. Interval is bleached pale beige for 10 cm of the UC (~75 degrees tca) and comprised of thin (1-3 mm thick) uniform, rhythmic, compositional folae of: light quartz rich folae; and thinner (1 mm) yellowish rust micaceous folae (sericite / muscovite). Intensively deformed with local weak S3 foliation appearing. The remaining part of this interval (bottom 2/3rds) is not bleached but severely oxidized, pitted, with increased limonite after pyrite ad 5% small (< 1 cm thick) quartz sweats. Folae are thin and not as deformed. (13.40 - 13.87 m) FLT with lesser broken quartz. Oxidized, rusty weathering, decomposed broken SCH + 10% fine crush and 1/2 dozen small (1-3 cm) pieces of white quartz at the lower contact - broken. No sulphides seen, just limonite.	lim	Str	ser	Str	Strong SCH-yel overprint		EPy		0.1			5
LS16-66		13.87	14.24	SCH-i	Oxidized - uniform rhythmic compositional Quartz - chlorite - sericite SCH; deformed folae. Fine (1 mm), uniform folae of chlorite - sericite with fine irregular clots of rusty limonite; alternating with lighter quartz rich layers (1 mm) finely pitted with rusty limonite. Trace disseminated pyrite along folae. Laminae/ folae generally at steep angles tca.	lim	Str	ser	Str	Strong SCH-yel overprint		EPy		0.1			
LS16-66		14.24	14.77	SCH-i	Oxidized crackle breccia rhythmic compositional Quartz - chlorite - sericite SCH + quartz sweats. Rust colored brittle deformation interval of mixed deformed SCH-lam + 20% brittly deformed white quartz losenges -> largest one 7 x 7 cm - crakled with limonite stain on fracture and 1 noted pyrite (euhedral) with smaller recrystallized pyrite crystals within the large one. Interval very oxidized ad is partly crackle brecciated possible nose of fold. Folae in SCH-lam pitted with limonite - very rusty.	lim	Str	ser	Str	Strong SCH-yel overprint.		EPy		0.1			
LS16-66		14.77	16.38	SCH-i	Uniform rhythmic compositional Quartz - chlorite - sericite SCH - locally altered (oxidized / bleached). Very similar to (13.87 - 14.24 m); more disseminated pyrite; more variability in alteration. Mixed change - overs of unaltered grey to rust - oxidized sub intervals to weakly bleached; pale beige - hydrothermally altered sub-intervals. Sub intervals may only be 3.20 cm wide. Folae / laminations wavy and are steep (~90 degrees) tca.	lim	Str	ser	Mod	Moderate SCH-yel overprint		EPy		1			
LS16-66		16.38	17.64	SCH-i	(16.38 - 17.16 m) Sericite (muscovite) quartz SCH - hydrothermally altered. Pale yellow - beige; folae texture partially obscured by hydrothermal alteration coarse grained, silvery white mica - phogite (sericite / muscovite). Folae are folded in upper 1/4 of interval. Some pitting along folae. (17.24 - 17.64 m) Sericite (muscovite) quartz SCHIST - hydrothermally altered. Pale beige - slightly yellow; weak alteration relative to 16.38 - 17.16 m interval. Folae a strongly deformed. Trace pyrite as disseminated along folae noted. Patchy fine calcareous alteration between folae - 2%.	lim	Wk	carb	Wk			EPy		0.1			
LS16-66		17.64	18.13	SCH-i	Uniform rhythmic compositional Quartz - chlorite - sericite SCH; Fine 11 m), alternating light grey quartz rich folae with dark micaceous folae (chlorite - sericite) - uniform; with local fine grained pyrite (shiny, euhedral, cubes) "cluster trains" along some folae. Very fine beige patches of carbonate alteration 2-5% pervasive. Folae warped and deformed but generally ~ 70 - 90 degrees tca. Lower gradational moderately oxidized.	carb	Wk	lim	Mod			EPy		1			
LS16-66		18.13	18.6	SCH-i	Quartz - chlorite - sericite SCH + quartz lenses +/- severe oxidation. Similar to above but 15% losenge / lens - shape foliaform quartz sweats (white). Increase local pitting and oxidation - one cavity 2 x 1 cm with drusy quartz + limonite coating. Increase carbonate alteration. Rust - orange severely oxidized upper contact - 10 cm wide. Upper contact and lower contact are gradational and 60 - 90 degrees tca. Folae are wavy throughout this interval. Local intense envelope of black MnO2 - along some quartz lenses with pyrolusite (dendritic) in the quartz fracture + calcite fill (beige). One lense appears weathered out leaving a large MnO2 - limonite coated vug.	carb	Str	lim	Mod			EPy		1			
LS16-66		18.6	22.58	SCH-i	Uniform rhythmic compositional Quartz - chlorite - sericite SCH +/- chlorite/ calcite alteration + pyrite. Grey, thin folae, uniformly alternating grey quartz rich and darker micaceous (chlorite - sericite) folae - deformed, wavy, warped - but essentially ~ 90 degrees tca. Local very fine grained, euhedral pyrite "cluster trains" along some folae interval relatively unaltered; however small (1 mm) pervasive green - grey chlorite spots noted locally and 2 rusty (oxidized - altered) sub-intervals occur at (19.40 - 19.54 m) and (20.60 - 20.68 m). Local off white irregular patches of calcite along some folae. Lower contact is gradation ~ 60 degrees tca - oxidized with limonite / MnO2 stain on fractures.	carb	Str					EPy		1			5
LS16-66		22.58	22.8	SCH-i	Non-uniform SCH-lam with quartz lenses - deformed. Rusty - grey contorted and deformed (brittle - ductile) crackle - fractured with quartz lenses (~3-5 cm) with green - grey deformed chlorite "wrapped" around quartz. Quartz (foliaform) is 20% of this small interval.	lim	Mod										20
LS16-66		22.8	30.45	SCH-i	Uniform rhythmic compositional Quartz - chlorite - sericite SCH +/- quartz sweats +/- oxidized pyrite. Generally moderate grey, uniform alternating light grey quartz rich folae (1-4 cm thick) with dark grey chlorite - sericite folae (1-3 mm thick); disseminated, shiny, very fine grained, euhedral pyrite as individual grains and as locally following folae as "cluster trains". Crystas 5-10% local overprinting specs - spots / patches of calcite (off white) interstitial to quart grains in quartz rich folae, sweats.	carb	Mod	lim	Tr			EPy		1			
LS16-66		30.45	31.27	SCH-i	Grey mixed interval of SCH-lam with foliaform quartz sweats. 10 - all foliaform; spread over entire interval. Selvages lined in dark green - grey chlorite + increased local pyrite (up to 3% on these selvages). Quartz sweats range from 1-3 cm thick and are 50 - 70 degrees tca. Largest quartz sweat crackled; pitted and limonite stained. Quartz sweat at FW has increased carbonate overprinting alteration.	carb	Mod	lim	Wk			EPy		0.1			30

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz			
LS16-66	31.27	45.52	SCH-i	SCH-lam	(31.27 - 36.57 m) Uniform rhythmic compositional Quartz - chlorite (sericite) SCH + calcite altered / weakly mottled. Grey SCH-lam with off white calcite specs - patches (1-3 mm) along some folae - pervasive. Pyrite as very fine grained, shiny, disseminated cubes throughout interval. Fairly monotonous interval --> folae locally deformed generally at steep angle's tca. (36.57 - 36.98 m) FLT - rusty, broken, oxidized SCH-lam core. No gouge; 10% fine oxidized chips. SCH-lam broken core pitted and limonite stained. No carbonate alteration - leached out. (36.98 - 45.52 m) - Uniform rhythmic compositional Quartz - chlorite (sericite) SCH + calcite altered + disseminated magnetite and pyrite. Grey monotonous SCH-lam interval with moderate to strong pervasive carbonate (off white calcite) alteration as in (31.27 - 37.57 m). Very uniform thin alternating folae. Generally trace to 1% disseminated very fine grained, euhedral (shiny) pyrite throughout interval. Pervasive black 1 mm sub-euhedral magnetite appears pervasively in same abundance from (43.92 - 45.20 m) - this sub interval is gradational and magnetite appears disseminated as does the pyrite through the same interval. Some grain relationships suggest the magnetite to be primary to the pyrite. Magnetite is trace to 1%.	carb	Mod	lim	Wk					EPy		0.1				
LS16-66	45.52	45.72	QV		Off white crackle - fractured quartz (weak) with increased chlorite along margins of sweat and pyrite. WRI 5% also contains shiny, euhedral pyrite up to 2% locally. off with calcite 'clots' (< 1 mm also noted interstitially) very irregular contacts. deformation. Moderate to strong calcite alteration family of low angle fractures (30 degrees tca) - calcite fracture fill (hair line - very fine). Folae are weakly deformed but generally at 45 degrees tca. Details: (45.72 - 46.0 m) - trace to 1% disseminated, eu (shiny py). (46.0 - 47.0 m) - same as above with tight chevron folds of the last 30 cm of sub-interval; weak chl spots (1 mm) in this area and increased disseminated, eu py (very fg) --> 1% local. (47.00 - 48.00 m) Weak to moderate chl - calcite spotly (1-2 mm) overprinting texture. 1 noted "D4" x-cutting kinks; 1-2% trace disseminated, eu py. (48.00 - 49.00 m) 2 foliaform quartz sweats - discontinuous; side by side; both 1 cm wide at 40 degrees tca; boudin texture at 48.77 m; py within sweats (trace). Trace py through most of this sub-interval. 5 hairline fractures at 30 degrees tca - calcite fracture fill. (49.00 - 50.0 m) Upper 1/3 of sub-interval moderately bleached and oxidized, trace - 1% disseminated py; local "cluster trains" along folae --> trace - 1%. Small x-cutting 3 mm wide qtz (2% white calcite) veinlet. (50.0 - 51.82 m) Grey SCH-lam (51.82 - 52.12 m) 3-5% fg, eu, shiny disseminated py cubes; epidote 2-5% as overprint alteration. (54.26 - 56.00 m) - was originally logged as SCH-tig but does not appear to be a tig or a very weak tig. (56.0 - 58.27 m) alternating rhythmic compositional folae qtz / chl (ser) SCH. Moderate grey - green, compositional folae of	carb	Mod	lim	Wk	Epidote moderate (56.0 - 58.27 m).	EPy		1							
LS16-66	45.72	58.27	SCH-i	SCH-lam	2 QV's: one near upper contact --> quartz foliaform lens 4 x 2 cm - wrapped in dark green chlorite / epidote and interfolae pyrite. Trace off white interstitial calcite. Other foliaform vein is 5 cm wide white with light green patch of calcite (2 x 2 cm) in quartz and some along selvage parallel sides. 2 cm of chlorite - rich band between them. No pyrite in the quartz; but there is.	carb	Mod	lim	Wk											
LS16-66	58.27	58.46	QV Zone		Alternating rhythmic / transitional SCH-lam + pyrite. Grey - green "transitional" SCH-lam with 5-10% deformed quartz 'losenges' +/- off white irregular patchy calcite +/- (epidote?); compositional quartz / mica folae becoming more 'non-uniform'. Trace - 5% disseminated, euhedral pyrite cubes (shiny) throughout interval; very fine grained pyrite 'cluster trains' along margins of quartz (+/- calcite) sweats.	carb	Mod	lim	Tr	Epidote - trace	EPy		3				5			
LS16-66	58.46	59.55	SCH-i	SCH-lam	Non - uniform SCH-lam +/- fuchsite. Pale beige; moderately silica flooded / hydrothermally altered section of non-uniform SCH-lam. Folae / laminations less definitive; slightly 'washed' - mottled' texture. Trace - 2% local fine grained, euhedral (shiny) disseminated pyrite or along folae. Generally more silica; ie thicker (4-5 mm thick light grey diffuse folae) than interval above. Fuchsite (Cr - mica) noted locally. Some details: (59.55 - 60.12 m) - included pyrite 'trains' along folae (up to 2%). Large (5 x 2 cm) quartz sweat (with interstitial calcite) near deformed upper contact - crackle breccia. (60.12 - 60.30 m) - Coarse sericite mica + fuchsite. (60.30 - 60.40 m) - Fracture at shallow low angle tca; increased oxidation; trace - 3% pyrite locally - particularly along folae. (60.40 - 62.58 m) - Coarse grained micas with fuchsite. (62.58 - 63.44 m) - mottled; slightly more 'washed texture'; small quartz foliaform losenges with minor local off white interstitial calcite alteration. 2 foliaform. (63.44 - 63.74 m) - mottled, fracute, oxidized deformed sub interval. Small very irregular quartz losenge edge. (63.74 - 64.72 m) - Rust colored, oxidized, partly broken and fractured.	carb	Mod	lim	Mod		EPy		1							
LS16-66	59.55	64.72	SCH-i	SCH-lam-nu	Non - uniform SCH-lam +/- fuchsite; Upper half of interval is moderately grey locally speckled (white) with interstitial calcite; uneven folae / laminations, wavy deformed; lower half of interval more distinct folae (at 45 - 50 degrees tca). Slight increase in pyrite (very fine grained, disseminated, shiny, euhedral) long dark folae; fuchsite note at 65.85 around quartz losenge. Lower half contains 35 - 40% white foliaform quartz sweats and losenges. (66.19 - 66.45 m) FLT - Broken, partly oxidized, calcite altered, locally lea core of all non uniform SCH-lam; increased limonite anhedral pyrite. (66.45 - 69.34 m) Non-uniform SCH-lam +/- fuchsite. Grey mottled, local fine shears; local spotty chlorite / calcite; local sub - intervals of increase pyrite, fuchsite. Details: (66.45 - 67.0 m) Mottled deformed; non - uniform folae / laminations - steep angles tca. (67.0 - 67.90 m) Local fuchsite at 67.15 m. (67.90 - 68.25 m) Mottled, chlorite speckled texture, limonite altered. (68.25 - 68.50 m) Include fuchsite along chlorite / sericite areas; 5-7% fine grained, euhedral, disseminated pyrite. (68.50 - 69.64 m) Texture becoming stronger foliated - more defined towards LC with dark green - grey chlorite alternating with off white quartz rich folae. Some folae at upper half - pyrite cluster trains up to 3% in same area of minor fuchsite. Lower contact broken; folae / laminations at 60 - 70 degrees tca.	carb	Str	lim	Wk	Limonite locally strong	EPy		1							
LS16-66	64.72	69.34	SCH-i	SCH-lam-nu	thicknesses of folae / laminations - deformed throughout. (69.64 - 70.88) Wavy fine folae / laminations; dark chl specs between qtz rich folae / laminaitons --> qtz rich folae dominant >>> chl rich folae. (70.88 - 71.13) Folded, contorted chl / ser around milky foliaform qtz. (71.13 - 72.0) Mostly very fine deformation chl - ser rich folae. (72.0 - 73.0) Long, weakly oxi, fractured parallel to core axis. (73.0 - 74.0) Partly mottled, partly sheared folae. (74.0 - 74.93) Partly broken along irregular fracture near parallel tca; including py, fuchsite, including cal, disrupted uneven, non-uniform folae / laminations. (74.93 - 75.67) Possible nose of fold; brittle-ductile deformation; noted fuchsite near nose; py eu, cubic, shiny. (75.67 - 76.68) Pale --> drilling down limb of fold; folae / laminations sub-parallel tca; wavy. (76.68 - 77.00) Mottled white qtz foliaform material - 40% contorted with chl wrapped around deformations. (77.0 - 77.94) More intensely deformed qtz - mica (ser - chl) folae rootless fold - dismembered chl - cal patch (4 x 5 cm) 2/3 down. (77.94 - 78.63) Slightly cg chl mica, including py towards lower contact. Folae / laminations somewhat more regular = at ~ 60 degrees tca. (78.63 - 79.25) Increased deformed losenges of white qtz; 1 x 4 cm very dark grey - green chl Non-uniform SCH-lam with pyrite. Moderate grey green non-uniform folae - much less quartz rich folae - dominantly a moderate grey green chlorite (quartz) SCH - grading into slightly more quartz rich alternating folae / laminations; local weak paling to beige - grey. FW for ~ 1 m becomes more felsic (beige - less foliated) - gradational. Local sub intervals of micro-shearing and increased calcite strong alteration. Details: (85.25 - 86.0 m) typical non-uniform alternating yet diffuse laminations; including darker folae with pyrite, euhedral cluster trains. (86.0 - 87.0) More mafic (chl) than previous sub interval - less pyrite. Very fine laminations --> chlorite (quartz) SCH. (87.0 - 88.0) Similar to (86 - 87 m). (88.0 - 89.0) Similar to 2 intervals above this one; increased calcite; some along hairline shear fracture. (89.0 - 90.0 m) Grading into beige felsic SCH; lesser pyrite; lesser sericite or chlorite. (90.0 - 90.33 m) SCH-f?? or unit grading into more felsic material; lighter color; pale off grey; noticeable drop in pyrite content. (90.33 - 92.0 m) FLT - Broken core; oxidized; rust / limonite fracture. Gouge at upper end of interval (10 cm wide). Core is non-uniform SCH-lam with trace - 2% very fine grained, disseminated, euhedral shiny pyrite. Largest piece of core 15 cm; fine oxidized fracture - irregular and low angle tca.	carb	Mod	lim	Tr	Limonite locally strong,	EPy		1		Epy trace to 2%.					20
LS16-66	69.34	85.25	SCH-i	SCH-lam-nu	Non-uniform SCH-lam with pyrite. Moderate grey green non-uniform folae - much less quartz rich folae - dominantly a moderate grey green chlorite (quartz) SCH - grading into slightly more quartz rich alternating folae / laminations; local weak paling to beige - grey. FW for ~ 1 m becomes more felsic (beige - less foliated) - gradational. Local sub intervals of micro-shearing and increased calcite strong alteration. Details: (85.25 - 86.0 m) typical non-uniform alternating yet diffuse laminations; including darker folae with pyrite, euhedral cluster trains. (86.0 - 87.0) More mafic (chl) than previous sub interval - less pyrite. Very fine laminations --> chlorite (quartz) SCH. (87.0 - 88.0) Similar to (86 - 87 m). (88.0 - 89.0) Similar to 2 intervals above this one; increased calcite; some along hairline shear fracture. (89.0 - 90.0 m) Grading into beige felsic SCH; lesser pyrite; lesser sericite or chlorite. (90.0 - 90.33 m) SCH-f?? or unit grading into more felsic material; lighter color; pale off grey; noticeable drop in pyrite content. (90.33 - 92.0 m) FLT - Broken core; oxidized; rust / limonite fracture. Gouge at upper end of interval (10 cm wide). Core is non-uniform SCH-lam with trace - 2% very fine grained, disseminated, euhedral shiny pyrite. Largest piece of core 15 cm; fine oxidized fracture - irregular and low angle tca.	carb	Mod	lim	Tr	Limonite locally strong	EPy		2							
LS16-66	85.25	92	SCH-i	SCH-lam-nu	Non-uniform SCH-lam. Moderate to dark grey uneven alternating rhythmic folae fairly planar (warped) at generally 55 degrees tca throughout most of interval, steepening within the last 2 meters of lower contact to 80 - 90 degrees tca with much drag - fold style deformation at fault contact. Lower contact at ~45 degrees tca. Unit pales a bit to beige - grey (hydrothermally altered - weak) from 96.31 m to lower contact; local hair line shears also noted. Trace - 1% very fine grained, disseminated, euhedral, shiny pyrite noted particularly in the tighter steep chlorite / sericite folae. Some small (< 1 cm) irregular calcite (white) patches associated with white quartz foliaform lenses / losenges. Details: (92.0 - 93.70) Broken, oxidized (93.70 - 93.90) Quartz lens - foliaform 2-4 cm wide. (93.90 - 95.0) Irregular fracture parallel tca with chlorite - calcite fracture fill; limonite gouge. (95.0 - 96.31 m) Quartz rich folae now have augen texture 3 x 5 mm including limonite + calcite + hairline fractures. (96.31 - 97.0 m) Bleached, sheared (fine) + minor gouge; low - moderate tca. Pale beige. (97.0 - 98.0 m) Very similar to above and include foliaform quartz sweats + pyrite trains along folae. (98.0 - 98.60 m) more deformed; drag fold.	carb	Mod	lim	Wk	Carbonate - locally weak to moderate to strong.	EPy		0.1		Epy trace up to 1% locally.				20	
LS16-66	92	98.6	SCH-i	SCH-lam-nu	(98.60 - 99.78 m) - FLT Light grey. Large fault with predominantly off white - cream - light grey clay / sericite + trace very fine grained pyrite gouge in upper half + sheared (+ gouge) pale beige - off white milled off white altered sericite SCH fragments. Darker grey gouge as a shear - fill at halfway point of FLT at 30 degrees tca. (99.78 - 100.58 m) Felsic SCH (quartz psamite or meta-rhy?). Pale beige, equigranular, banded quartz rich rock with light chlorite - sericite folae in between lighter quartz rich bands. Unit at low angle tca (25 degrees tca). Foliaform quartz with two tones (white + white / grey) have very irregular margins with chlorite. Sudden drop in pyrite content. Several fine 'D4' kink - fractured and 1 noted x-cutting quartz veinlet (1/2 cm wide) at ~ 60 degrees tca - discontinuous. Some pyrite at margin. Trace amounts of pyrite also found along very fine fractures in foliaform quartz sweats. E.O.H.	lim	Tr				EPy		0.1						10	
LS16-67	98.6	100.58	SCH-f		Casing to 3.05 m, no core recovered. Ground QV rubble + oxidized SCH-tig at top of hole.	lim	Str				EPy		0.1							
LS16-67	0	3.6	OVB																	
LS16-67	3.6	9.6	SCH-f	SCH-yel	(3.6 - 5.6 m) Coarse grained chlorite wisps in an orange FeOx stained bleached out zone of contorted plastically deformed schist unit; < 1% fine grained pyrite cubes, shiny along disrupted folia. (5.6 - 9.6 m) FLT - gougy oxidized FAULT/ broken SCH-tig interval. 5.6 --> 7.6 m Concentrated gouge milled SCH-tig. 8.3 --> 8.9 m Crumbly gougy interval, < 2 cm QV fragments. 9.14 --> 9.6 m Intense clay / gouge. (9.6 - 14.0 m) Intensely oxidized, highly deformed tiger texture with bleached pale grey - yellow patches (could be classified as SCH-yel as hydrothermally altered especially 11.9 - 14 m; distinctive wispy chlorite bands discontinuous so SCH-yel overprints SCH-tig.). (11.9 - 12.2 m) Zone of intense shearing with ptgymatic folds plus large 3 x 5 cm clasts of SCH-lam pyritic in a "boudinaged" pull apart angular texture to quartz sweats; tectonized unit overall. (14.0 - 15.25 m) FLT - gougy limonitic FAULTED SCH-tig, crumbly with 0.4 m LOST in interval; fragments pitted with pyrite cubes --> gone to FeOx filled.	lim	Str				EPy		0.5		Pyrite trace - 1%					
LS16-67	9.6	15.25	SCH-f	SCH-yel						Clay alteration - intense	EPy		2							

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz			
LS16-67	15.25	28.9	SCH-i	SCH-ptm	There is also locally developed SCH-tig texture variably developed. Pale green grey / orange oxidized highly tectonized interval with common fractures with rusty envelopes at low angle to core axis. 15.25 - 16.2 m SCH-yel hydrothermal alteration overprint FW zone to fault above with finer grained texture than "tig" above where all mafics have gone to sericite interval weakly silicified. 16.2 - 17.0 m Sub parallel tca rusty fracture filled with goethite - FeOx up to 5 mm thick, intense oxidization of wall rock, minor open space along fracture. 18.3 - 19.2 m Rusty fracture runs down core axis. 19.8 - 21.6 m Grey green highly tectonized sub interval where foliation and deformation created an interference pattern of rootless wavy lenzoidal white quartz < 2 cm2 in a sericite swirly folia; common shiny, euhedral pyrite along wavy folia. 25.85 - 26.9 m Fractured faulted zone with intense FeOx along fracture sub parallel tca, crumbly and pitted SCH-tig from 26.6 - 26.9 m. feldspars?) 1-3 m. (34.7 - 35.0) FLT - < 1 cm2 chips of SCH-lam in orange gouge, broken contacts. (35.0 - 37.0) Sericite / chlorite rich SCH-lam with well developed crenulation cleavage 5-10 degrees tca vs foliation 45-55 degrees tca. (37.0 - 38.0) FLT BX + gouge; milled SCH-lam to < 1 cm chips cemented in limonitic / grey gouge; SCH-lam fragments very pyritic (5%). (38.0 - 56.9) Dark grey (green) very uniform thinly laminated pyritic SCH-lam with common carbonate and intense 30 - 50 cm network mess texture of epidote; fine grained pyrite cubes, shiny as high concentration trains along foliation and following local strongly developed kink folds ?D4; 41.3 m Salmon pink carbonate patch ?rhodochrosite with some ragged patches < 2 cm2 of dark chlorite. 43.2 - 43.6 m Fractured rusty zone with Mn. 54.0 - 56.9 m Overprinting of carbonate + epidote with pyrite masking foliation. 56.9 - 59.7 FLT BX - pale green very epidote rich, deformed and also brecciated SCH-lam, oxidized. 0.70 m LOST between 57.1 - 58.2 m. Tan / pale green sericite net texture overprint with broken white quartz fragments in a clay + sericite/ epidote matrix; abundant ankerite filling fractures. (59.7 - 66.5 m) Pale green (somewhat silicified?) bleached SCH-lam with uniform quartz lenses, slightly wavy overprinted by ragged network of epidote; interval has significant fine grained shiny pyrite trains along foliation with sericite and	lim	Str							EPy	3					2
LS16-67	28.9	66.5	SCH-i	SCH-lam	SCH-i with LIST; Mottled green with white carbonate / fuchsite plus serpentine LISTWANITE; abundant epidote. 57.8 - 58 m Fractures filled with tan colored epidote + purple crystals of fluorite. Entire listwanite unit locally obliterates the SCH-lam texture however, pyrite trains with epidote / sericite partings separate uniform quartz segregations compositional layers - remove epidote + fuchsite (+ carbonate) and this would be SCH-lam: 69.9 - 76.0 Zone of intense brecciation of white quartz sweats - fractured + brecciated with common blue black serpentine and associated white carbonate +/- fuchsite in these fractured quartz lenses plus abundant serpentine ad Cr mica fuchsite along foliation; mica compositional bands; - very disruptive folia. 74.1 - 74.4 m - 10% grey gouge in fractured quartz lens rich sub interval of Listwanite.	carb	Mod	lim	Mod	Limonite alteration varies in intensities. Epidote locally - strong		EPy	5			Pyrite trace up to 7%	5			
LS16-67	66.5	76	SCH-i	SCH-lam	Transition interval from Listwanite --> SCH-lam dominantly grey light green sericite and pyrite rich uniform SCH-lam with 10 - 20 cm intervals of quartz sweats + serpentine and fuchsite along foliation; unit has 7 - 10% shiny, euhedral pyrite trains along folia; interval appears bleached and weakly silicified which gradually decreases down hole. 78.4 - 78.6 m Zone of fuchsite / serpentine and carbonate. 79.15 - 79.35 m Fuchsite along folia rich zone. 79.6 - 79.8 m Fuchsite rich area. 80.15 - 80.25 m Quartz lens with serpentine + fuchsite 81.9 - 82.05 m Quartz lens with fuchsite, pyrite and carbonate. 82.6 - 82.8 m Zone of quartz / carbonate lens + fuchsite and pyrite. 83.25 - 83.95 Zone of pyrite, fuchsite and quartz / carbonate. 85.4 - 85.6 Quartz / carbonate + serpentine, pyrite and fuchsite. 86.0 - 86.6 Quartz / carbonate + pyrite/ serpentine and fuchsite partings and concentrated along selvages quartz lens running down core axis ~ end of listwanite intervals. (86.6 - 94.6 m) Grey uniform SCH-lam that is very pyritic with zone of chlorite blebs giving spotted texture 90.3 --> 90.7 m, 91.2 --> 92.3 m. (94.6 - 95.2 m) FLT - oxidized crumbly with minor gouge oxidized pyrite content of SCH-lam host, non sharp boundaries. (95.2 - 96.7 m) Grey slightly bleached SCH-lam very pyritic.	list	Str	carb	Str	Fuchsite - strong.		EPy	8			Pyrite 8-10% shiny fine grained, euhedral pyrite.				
LS16-67	76	86.6	SCH-i	SCH-lam	Short interval of competent somewhat massive homogenous felsic schist (FW meta rhyolite unit); locally pitted but loose nice laminations of compositional bands of SCH-lam above and below; oxidized contacts. Grey (green) classic thinly laminated SCH-lam with 3-5% shiny < 2 m euhedral pyrite along folia; unusual 1 m blebs of magnetite locally fone to hematite overprinting unit; minor epidote blebs. E.O.H. Rubbled core; oxidized and silica flood SCH-lam with coarse white mica.	list	Mod	lim	Tr			EPy	7			Pyrite 7 - 10%	3			
LS16-67	86.6	96.7	SCH-i	SCH-lam	Deformed oxidized SCH-lam. Rust - beige colored brittle ductile deformed and broken core; pronounced S3 cleavage locally - similar to SCH-yel (no talc; no fuchsite). Decomposed broken pieces. Pronounced S3 --> thrust?? Very deformed compositional folae / laminations. Pyrite (trace) noted along folae as fine grained, euhedral cubes in less oxidized patches.	carb	Str	lim	Str	Limonite - local.		EPy	8			Pyrite 8 - 10% locally.				
LS16-67	96.7	99.1	SCH-f			lim	Tr					EPy	0.5			Pyrite less than 1%				
LS16-67	99.1	102.11	SCH-i	SCH-lam		carb	Wk			Magnetite < 1%.		EPy	3			Pyrite 3 - 5%.				
LS16-68	1.6	1.9	OVB			lim	Str													
LS16-68	1.9	4.75	SCH-i	SCH-tec		lim	Str	ser	Str	Strong SCH-yel overprint.		EPy	1				5			
LS16-68	4.75	8.25	SCH-i	SCH-yel	SCH-yel with talc (greasy) with SCH-ptm texture. Broken and locally oxidized, with silvery coarse grained talc + greenish mica (sericite). Very deformed silvery chips and core. Brittle ductile severe deformation; coarse grained white mica ductility wrapping around ductile and brittle white and rust white quartz rich discontinuous compositional losenges Coarse grained mica are generally a silver white - greasy (talc / sericite) with lesser slightly dark greenish - grey sericite / chlorite wisps and contorted sections.	lim	Tr	ser	Str			EPy	0.1							
LS16-68	8.25	13.86	SCH-i	SCH-tec	boudined and deformed off white (+/- rust) quartz rich (compositional lenses, losenges, discontinuous sheared fragments; + more dutile light green - grey to dark green - grey mica (sericite - chlorite) in between and 'wrapping' the more brittle quartz lenses. Very complex structurally. Compositional discontinuous quartz and mica at all angles tca. Possible thrust zone. Trace fine grained, euhedral/ anhedral pyrite noted particular to denser structural zones (compression). (9.31 - 9.80 m) SCH-yel deformed and broken with talc (greasy). Silvery coarse grained greasy white mica (talc - sericite) - contorted broken pieces. Not competent; largest piece 8 cm. Fractured oxidized with limonite ad dark MnO2. Original rock very contorted - part of thrust zone ? - may have been SCH-lam / SCH-tig originally. This lithology is altered structurally and chemically. (9.80 - 13.86 m) Tectonized SCH-lam / SCH-tig severely brittle - ductile deformation. Very similar to (8.25 - 9.31 m); more shearing noted at 45 degrees tca along very developed S3 (ie. 11.66 m) foliation; evidence of thrust zone. Local oxidation at shear - brecciated sub intervals (35 degrees tca) at 12.06 - 12.30 m. Deformation (boudin, ductile micas) at all angles tca. Fine grained, disseminated, euhedral, shiny striated pyrite variably trace - 2%; higher concentrations in structurally denser oxidized shears and mica wisps; lesser noted in the quartz	lim	Mod	ser	Str	Strong SCH-yel overprint		EPy	0.1			Epy trace to 2% - locally.				
LS16-68	13.86	20.17	SCH-i	SCH-ptm	(13.86 - 18.15 m) Local SCH-tig development. SCH-tig severely deformed. Distinctive 'tiger texture'; discontinuous brittle - ductile light grey quartz and 'wispy' lenses od dark to moderate green - grey chlorite (sericite). Very deformed but not as complex and chaotic as the 'tectonized' intervals. Upper part of interval has almost uniform S3 (crenulation cleavage) at 50 degrees tca and the general fabric - although maybe related to shearing is ~ 55 degrees tca. The lower contact is folded and conroted due to the shear - plane contact. Lower contact shear at 50 degrees tca, S2 is perpendicular to this. Local rust penetrating fracture. Pyrite comes as fine grained, shiny, euhedral cubes in scattered clusters - not evenly distributed; probably due to contorted texture of this rock lithology. (18.15 - 20.17 m) SCH-lam sheared and deformed. Grey tones of light grey quartz rich rich deformed and dismembered folae / laminae typically 3-4 mm thick and dark green - grey interleaved chlorite - rich compositional folae / laminations typically 1-3 mm thick. Very contorted, folded and locally brittly brecciated (ie. 19.80 m). Upper contact broken and sheared at 50 degrees tca. Pyrite as fine grained, euhedral, shiny / striated cubes unevenly distributed.	lim	Mod	carb	Tr	Limonite fair to moderate.		EPy	1					5		
LS16-68	20.17	20.58	QV		QV / FLT - Rusty, broken pieces of core (largest piece 13 cm long) with rusty weak fracture fill ad wall rock. QV's are 2-4 cm wide some suspeat to be x-cutting. Very fine grained pyrite - limonite on fractures with in milky quartz noted. Interval is ~50% milky white quartz + 50% oxidized SCH-lam.	lim	Str					EPy	0.1				30			
LS16-68	20.58	25.38	SCH-i	SCH-ptm	(20.58 - 22.27 m) SCH-lam deformed. Very similar to (18.15 - 20.17 m). Upper part is drag folded into fault above; generally folae / lamia at 50 - 70 degrees tca. Increased light grey foliaform quartz sweats (< 1 cm thick). Sharp sheared lower contact at 45 degrees tca. (22.27 - 25.38 m) FLT - oxidized, sheared. Broken, decomposed, sheared non-uniform SCH-lam, rusty - grey in color with 20% orange - rust gouge. Two sub-intervals grey and competent; although very deformed ductile / shear: (23.00 - 23.40 m) and (23.99 - 24.75 m); these 2 sub-intervals contain moderate rust along some select mica rich folae / lamina. Trace - 1%, fine grained, euhedral, cubic and shiny pyrite unevenly disseminated through interval.	lim	Str			Limonite locally strong in fault as well as SCH-yel overprint in fault.		EPy	1				5			
LS16-68	25.38	33.53	SCH-i	SCH-ptm	(25.38 - 29.03 m) Non-uniform SCH-lam sheared and deformed. Grey; light grey quartz rich compositional lenses / losenges / sweats - discontinuous and dark (green) grey interstitial chlorite (+/- sericite) ductile material. Details: (25.38 - 27.0) Compositional folae/ lamina appear sheared / streaky - patchy texture, fabric at 5 - 45 degrees tca; trace disseminated, euhedral, cubic, shiny pyrite. (27.0 - 29.03 m) Compositional folae laminae less streaky and more rhythmic and alternating; local developed S3 crenulation cleavage. S2 typically ~ 40 - 60 degrees tca and wavy; S3 typically ~ 30 degrees tca and perpendicular to S2. (29.03 - 29.31 m) FLT - broken, oxidized, decomposed non-uniform SCH-lam + 10% rust - clay gouge. No sulphides noted due to oxidization. Upper contact broken ~ 60 degrees tca; lower contact broken ~ 75 degrees tca. (29.31 - 31.0 m) SCH-tig characteristic tiger texture: discontinuous dark 'wispy' lenses of chlorite - sericite mica + discontinuous slightly thicker compositional deformed losenges lenses of quartz. Local S3 at 0-20 degrees tca. (31.00 - 33.53 m) FLT - Beige rust of broken core / breccia / brittle deformed SCH-tig / SCH-lam (70%) + crush (20%) + gouge (10%). 0.3 m of lost core at upper end of interval.	lim	Wk			Limonite locally moderate to strong in fault.		EPy	0.1					0.1		
LS16-68	33.53	35.05	QV		QV mineralized - VG, Broken fractured and oxidized white QV with *1.1 m of lost core in this interval - width undetermined. Because it is mineralized with pyrite and galena assumed to be x-cutting.	lim	Mod				Y	EPy	0.1	Gn	0.1					
LS16-68	35.05	47.46	SCH-i	SCH-lam-nu	Non-uniform SCH-lam; altered. Generally wavy thicker quartz - rich compositional folae / lamina / banding up to 1 cm thick (average 4 m thick) up to ~ 42.0m; 42.0 - 43.0 m shows an increase of foliaform light grey quartz sweats --> thickest is 8 cm; average 3 cm thick and occupies ~ 30% of 42 - 43 m interval. Also associated with the quartz sweats is lesser white calcite. Some S3 at 45 degrees tca in this interval. Other details: (43.0 - 43.66) Dark grey; foliation at 20 - 30 degrees tca; subhedral white calcite along quartz - rich compositional folae / lamina. Quartz sweats are ragged and somewhat moth eaten. Chlorite >> quartz in this sub-interval. (43.66 - 44.69) Lighter grey more uniform / rhythmic alternating quartz / mica folae / lamina; noted S3 / D4 structure ~ 40 degrees tca. Locally leached, pitted ad oxidized. White calcite overprints in matrix. (44.69 - 47.16) Generally darker, more chlorite rich, loss of uniform compositional folae/ lamina. S3 / D4 structure at ~ 45 degrees tca. * up to 10% (local) fine grained, disseminated, euhedral, shiny cubic pyrite (39.68 - 39.52 m)* (47.16 - 47.46 m) FLT - Rusty, oxidized interval with shear - crush / breccia 80%; + rusty orange grit and gouge 20%. Contacts are broken.	carb	Str	lim	Wk	Limonite varies in intensities from trace to strong.		EPy	1					25		

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz			
					(47.46 - 48.96) Leached, pitted oxidized; dark rusty brown. (48.96 - 50.13) Sub interval contains large % of light grey white foliaform quartz sweats / veinlets; average thickness is 3 cm. Many - particularly at top end are have margins with euhedral dolomite + pyrite. (50.13 - 51.58 m) FLT - Rusty - orange broken, non uniform SCH-lam; upper contact is a broken QV + gouge ad immediate to that is a drag fold in the SCH-lam with S3/ D4 structure at 25 degrees tca. Rest of interval is broken, oxidized SCH-lam + 20% gouge and crush. Fine grained, euhedral, cubic pyrite along selvage of QV at upper contact: otherwise trace pyrite in broken oxidized SCH-lam. (51.58 - 57.80) Non uniform SCH-lam; altered. Generally dark (green) grey chlorite rich non-uniform SCH-lam of varied texture and composition. Details: (51.58 - 53.0) Dark green - grey, mottled ad obscured compositional folae; local weak spotted (chlorite) texture. Slight increase in fine grained, euhedral pyrite - uneven distribution. (53.0 - 57.0) Similar to above; stronger chlorite - calcite alteration; local clotted texture. (57.0 - 57.8) Paler color; beige light rust - light grey; weak hydrothermal alteration. Off yellowish with phenocrysts of dolomitic calcite. Lower contact is at 55 degrees tca with QV. (57.8 - 57.95 m) QV - mineralized (VG). Core broken - contacts broken; assumed to be x-cutting.	carb	Str	lim	Mod	Carbonate - Locally. Limonite moderate to strong.	Y	EPy			0.1					40
LS16-68	47.46	57.95	SCH-i	SCH-lam-nu	SCH-lam; black chlorite (?); local magnetite; weak alteration. Generally greyish to slight beige - grey (very weak hydrothermal alteration) with some local chlorite overprint spots; folae / laminae relatively deformed but locally partially obscured. Details: (57.95 - 60.0) Fair rhythmic alternating compositional folae / laminae. Light grey quartz average 3 mm thick; dark grey chlorite / sericite average 1 mm thick. Off white calcite alteration as white specs. Pyrite along folae. (60.0 - 61.12) Decreasing mica folae; increasing spotted (1 - 2 mm) dark chlorite alteration. Folae / laminae partly obscured by alteration. (61.12 - 61.32) Unusual black mineral possibly black chlorite + magnetite, or slightly carbon rich folae. Associated increase in fine grained, euhedral, cubic pyrite and extreme calcite alteration. Folae at ~ 30 degrees tca. (61.32 - 62.75) Compositional folae/ laminae are slightly deformed and follow the core axis for 3/4 of interval. (62.75 - 63.14) Well defined folae / laminae - rhythmic + overprinting black chlorite + magnetite alteration. Magnetic.	carb	Str	lim	Wk			EPy			2			EPy - trace up to 5% locally.		
LS16-68	57.95	63.14	SCH-i	SCH-lam	Non-uniform SCH-lam; local chlorite spotted overprints. This interval is similar to the above unit but with more quartz sweats giving it a more uneven texture. Also locally intensively spotted obscuring rhythmic folae / laminae. Details: (63.14 - 64.26) Wavy folae / laminae ~ 0 degrees tca; with intense overprinting dark green - grey chlorite spots (1 - 2 mm diameter) and unique "leopard texture" --> dark chlorite cored with light grey calcite. Intense chlorite - calcite alteration. 4 mm wide x-cutting QV veinlet at 63.98 m. (64.26 - 65.08) Increase in foliaform quartz sweats ~12 averaging 1 cm thick; tight foliation at 70 - 80 degrees tca. (65.08 - 70.0 m) Generally chlorite - calcite altered non-uniform SCH-lam; spotted dark chlorite +/- epidote; 1-2% fine grained, euhedral, shiny cubic pyrite disseminated. (70.0 - 70.60) Oxidized to lower contact fault; brown rusty, weakly leached lower contact at 50 degrees tca; broken contact with fault. (70.60 - 71.20 m) FLT - Small fault - broken chips of non- uniform SCH-lam + QV (foliaform) and fines. Beige - weak rust; lower contact at 40 degrees tca.	lim	Wk					EPy			0.1				0.1	
LS16-68	63.14	71.2	SCH-i	SCH-lam-nu	SCH-lam; altered. Small interval of weakly hydrothermally altered (silica flooded) and selective oxidization along folae. Deformed folae / lamina 0 - 90 degrees tca.	lim	Wk					EPy								
LS16-68	71.2	71.52	SCH-i	SCH-lam	Large cross cutting broken quartz vein; upper contact in tact; lower contact broken lam; Generally fine rhythmic alternating uniform folae / lamina with local sub-intervals of overprinting spotty chl +/- cal +/- epi +/- mag. Interval progressively more altered towards LC with FLT with a more mottle texture; increased ser and hydrothermal alteration. Details: (73 - 77) Generally fine rhythmic folae / laminae - mod (greenish-grey). Up to 30% losenge / lenses of light grey quartz; local epi and black specs of magnetite (at ~ 75 m). (77 - 81) Similar to above sub-interval; increase spotty dark chl + cal alteration. Texture partially obscured. (81 - 81.7) This chl - cal altered sub-interval contains a small broken oxi qtz vein --> broken UC and LC - maybe x-cutting; weak chl - cal 'leopard texture' at HW envelope to QV. (81.70 - 82.12) Sub-interval of increased milky white foliaform qtz sweats; increased fine grained disseminated, euhedral pyrite cluster trains on qtz sweat selvages. White interstitial cal associated with some qtz sweats (82.12 - 86.06) Long sub-interval of gradually paling to beige grey; increase ser: ad shear / clay areas with minor broken core; shear planes: (83.02 - 83.07m); (83.2 - 83.6 m); (85.25 - 85.34 m). Mottled to weak uniform rhythmic texture - partially obscured. (86.06 - 86.75) Sheared, dismembered folae / laminae; bleached, hydrothermally altered (silica flooded); sharp LC to FLT below. LC at 35 degrees tca. Streaky texture. (86.26 - 90.25 m) FLT - beige - weak rust	lim	Wk					EPy			0.1	Gn		0.1		
LS16-68	72.33	90.25	SCH-i	SCH-lam	LS16-68 LS16-68	carb	Str	lim	Tr			EPy			1		Epy - trace up to 3%.	15		
LS16-68	90.25	96.95	SCH-f		SCH-f felsic schist. Distinct light beige color - no compositional layering - and distinctive irregular foliaform quartz losenges; lenses and sweats - ductilely deformed. Foliation, wavy and deformed generally moderate to steep tca. Very trace amounts of fine grained pyrite.	lim	Tr					EPy			0.1		25			
LS16-68	96.95	97.15	QV		QV (large quartz sweat). Foliaform quartz. SCH-f felsic schist; Very similar to (90.25 - 96.95 m). Folae - sinuoidal; and for most of this interval at shallow angle tca. Irregular white quartz losenges - ductilely deformed often lined (1-3 mm wide) with dense sericite +/- very trace fine grained, euhedral pyrite cubes. This interval does not contain porphyroblasts. E.O.H.	lim	Tr				EPy			0.1			15			
LS16-68	97.15	100.58	SCH-f		Rubblled core pieces of altered, partly decomposed, pale beige - silvery sericite (muscovite) quartz schist and hydrothermally altered derivatives: SCH-yel.	lim	Wk													
LS16-69	2.7	3.05	OVB		quartz SCH with pale hydrothermally altered yellowish sub-intervals of coarse grained sericite - muscovite quartz SCH. The above lithologies are broken and faulted in numerous spots. This interval is in a strongly oxidized zone. Pyrite general going to limonite in trace amounts. Detailed sub- intervals: (3.05 - 4.85) SCH-tig; rusty with lesser uneven patches of pale beige silvery SCH-yel. Mica very coarse grained --> dark in SCH-tig; silvery in SCH-yel. Minor local chlorite spots (1- 1.5 mm diameter). Very deformed / contorted sub-interval. Trace rusty, euhedral pyrite. (4.88 - 5.15) FLT - Irregular fractured SCH-tig, very rusty and oxidized; very fine rusty 'soil' gouge (50%); broken core very decomposed. No sulphides noted. (5.15 - 5.70) SCH-tig; broken oxidized core; partly decomposed. Pale moderate small 1 cm x 2 mm thick characteristic wispy texture. (5.70 - 6.10) FLT - very similar to (4.88 - 5.15 m); very broken down to almost a rusty soil. (6.10 - 7.0) SCH-tig; upper half fabric at 5 degrees tca; brittle - ductile deformation. Minor clay / sericite in fracture planes. Chlorite / sericite 'wispy' discontinuous, contorted lenses. Trace very fine grained pyrite - limonite specs. (7.0 - 7.55) SCH-yel; light silvery alteration yellowish - beige; strong brittle - ductile deformation: white quartz - brittle; sericite - ductile; local rust (lim stained) in some of the ductile areas. Ser - cg. No sulphides noted. (7.55 - 8.94) SCH-tig; intensely originally --> mafics being pulled out; result (SCH-yel) is a cg ser (mus) brittle - ductile deformed, oxidized unit. No sx noted in this sub interval. (11.03 - 11.16 m) QV / FLT - broken, very oxidized - rusty qtz (white) + gouge (clay - ser) - 40%. Shear seems to be ~ 75 degrees tca. (11.16 - 14.26 m) SCH-tig (+/- SCH-yel) / FLT; very similar to (3.05 - 11.03 m); interval starts with a drag fold (oxi) of SCH-tig; sub-intervals of oxi SCH-tig, exhibiting brittle-ductile deformation; x-cutting/ foliaform QV; hydrothermally altered pale beige cg ser qtz SCH (SCH-yel). Generally no fresh py noted in this interval; tr disseminated eu pits stained with lim seems to be what is left after oxi and hydrothermal alteration. (11.16 - 12.19) Mixed zone - contorted brittle - ductile deformed SCH-tig one brittle deformed 3 cm wide QV; pitted with lim stain. (12.19 - 12.40) sub-interval has colored QV within altered SCH-tig - contorted / deformed chl. (12.20 - 13.12) altered SCH-tig; fabric at ~60 - 90 degrees tca; brittle-ductile deformation 20 cm section in middle with chlorite spots. (13.12 - 13.58) Rusty oxidized altered SCH-tig/ FLT + 10-20% fine crush and lim clay gouge. Sheared at 45 degrees tca; no sx seen. (13.58 - 14.26) SCH-yel; hydrothermally altered, cg ser mica. Tr eu, vfg, cubic, shiny pyrite (14.26 - 15.67 m) Non-uniform SCH-lam; Uneven compositional folae/ layering, locally deformed, locally discontinuous; locally boudinaged; locally mottled; locally crenulated. Dark chlorite - sericite and light quartz - rich colae. Increased disseminated, very fine grained, euhedral pyrite from last interval. (15.67 - 16.72 m) SCH-lam - Relatively transitional to a more uniform folae / layering yet still somewhat similar to (14.26 - 15.67 m). Oxidized lower contact (at ~ 90 degrees tca.	lim	Wk					EPy			0.1					
LS16-69	3.05	9.98	SCH-i	SCH-yel	LS16-69	lim	Str					EPy			0.1					
LS16-69	9.98	14.26	SCH-i	SCH-yel	LS16-69	lim	Str					EPy			0.1					
LS16-69	14.26	16.72	SCH-i	SCH-lam-nu	LS16-69	lim	Wk					EPy			1		5			
LS16-69	16.72	16.92	QV		QV (mineralized), x-cutting and mineralized.	lim	Wk					EPy			0.1	Gn	0.1			
LS16-69	16.92	29.5	SCH-i	SCH-lam	(16.92 - 21.56 m) SCH-lam; uniform alternating compositional rhythmic folae / layers of more equal thickness (2-3 mm thick) of dark grey chlorite (sericite) and light grey quartz rich folae. 1-2% euhedral pyrite and more "pyrite cluster trains" along folae noted. Local white specs of calcite. Small rusty oxidized fault at 21.17 - 70 - 90% tca. LC at 35 degrees tca. (21.56 - 21.80 m) FLT - minor; very rusty oxidized broken decomposed SCH-lam core, greasy sericite - clay gouge - 20% + strong rust oxidization and minor black MnO2. Shearing at 80 degrees tca. (21.80 - 28.00 m) SCH-lam; very similar to (16.92 - 21.56 m) with noted 15% white foliaform quartz sweats typically 2 cm wide (average) with dark chlorite and increased very fine grained, euhedral pyrite along margins of sweats - also minor white interstitial calcite associated with sweats and ????? moderate - strong carbonate (calcite) alteration through thin interval. 27.40 m is a dolomitic patch. (28.00 - 29.50 m) FLT - Rusty, oxidized, broken, decomposed SCH-lam core with black patchy MnO2 on fracture surfaces - locally dendritic. Broken core - 70%; crust + lesser gouge - 30%. Upper contact 35 degrees tca. Sharp lower contact at 20 degrees tca. No sulphides noted although very oxidized. thick for both dark (chl - ser) folae and light (qtz rich) folae. Less py than previous SCH-lam interval. Noted groupings of qtz sweats - typically 1-2 cm wide. Detailed sub-intervals: (29.50 - 30.36) Rusty leached oxidized - FW to FLT above. Local irregular vugs along folae / quartz sweats. (30.36 - 31.52) Grey uniform rhythmic folae - no qtz sweats. (31.52 - 31.73) 8 foliaform qtz sweats - crackle fractured with reintroduced MnO2 py (along margins and in qtz) increased py content also along folae - up to 5% local. Local oxidization associated with qtz sweats; locally pitted. (31.73 - 33.78) Very similar to (30.36 - 31.52 m) characteristic SCH-lam predominantly 90 degrees tca. White specs of cal along folae. 1 foliaform qtz sweat. (33.78 - 34.95) Grouping of 5 foliaform qtz sweats within SCH-lam increased py along margins and folae; weak rust (oxidized). (34.95 - 34.56) Weak patchy bleached to pale beige in 50% of sub-interval; tr epi. Slightly less uniform folae / laminae. (34.56 - 34.78) SCH-lam + rust / oxidization and pitted along folae / laminae leached. (34.78 - 37.10 m) Very even uniform alternation thin compositional folae / lamina with very local light rust along long axis fractures, some folae, and local pitting (1-3 mm) along lamina (local). Developed S3 crenulation cleavage and deformed towards LC with flt at 0 - 5 degrees tca. Increased vfg, eu (shiny) py along select folae / laminae. Partly leached - reduced calcite SCH-lam +/- hematite; deformed. Variable SCH-lam with increasing quartz sweats(1 - 2 cm wide); local pitting and oxidization; weak shear fabric + S3 crenulation development; becoming increasingly non-uniform towards gradational lower contact. Detailed sub-intervals: (42.13 - 43.00) Ductile S3 and shear at 0 - 5 degrees tca near end of this sub-interval. Including pyrite along chlorite in S3. Calcite associated with shear - crenulation - S3 +/- pyrolusite. (43.0 - 43.8) Increased quartz losenges / lenses (average 0.5 x 5 cm). Often discontinuous. Hematite stained and weakly developed S3 crenulation. (43.80 - 44.07) Oxidized, pitted, very rusty leached sub-interval; increased euhedral, fine grained pyrite disseminated. SCH-lam folae / laminae at 75 degrees tca. (44.07 - 45.0) Nose of fold; hematite stained; including calcite (carbonate alteration). Nose sliced off by folae at 90 degrees tca. (45.0 - 46.0) Hematite stained + bottom half of sub-interval is spotty with chlorite. Small 0.5 cm discontinuous quartz (losenges) sweats. (46.0 - 47.0) Includes a broken oxidized; rusty section disrupted folae / laminae becoming more deformed and uneven. Including in pyrite. (47.0 - 48.45) Increase in carbonate alteration; gradational contact at 50 degrees tca at lower contact.	carb	Mod	lim	Wk	Limonite locally strong		EPy			1					
LS16-69	29.5	42.13	SCH-i	SCH-lam	LS16-69	carb	Mod	lim	Mod	Limonite changes from trace to strong		EPy			2		Epy trace to 2%.	5		
LS16-69	42.13	48.45	SCH-i	SCH-lam	LS16-69	carb	Mod	lim	Mod	Limonite trace to strong		EPy			2		Epy 1 - 3%.	5		

LSie number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
LS16-69	48.45	50.85	SCH-i	SCH-lam-nu	Non-uniform SCH-lam +/- fuchsite. Uneven, mottled, mixed with irregular quartz (+ white interstitial calcite) sweats and increasing overprint Calcite - chlorite (spotty) alteration towards lower contact. Relatively more chlorite in this section - very ductile. One foliaform quartz sweat? at 49.50 m with large 3 cm wide vug (sweat is 5 cm wide) - rusty and black infill of boxwork texture (bladed quartz) - (limonite + MnO2); increase pyrite. 50.05 - 50.85: very altered; laminae / folae obscured by calcite +/- fuchsie + chlorite overprinting. QV / FLT. Broken oxidized section of 65% white broken quartz - targets piece 6 cm across; 20% orange - rust gouge; and 15% crush. Quartz has strong limonite stain on surface ad along fractures. No sulphides noted.	carb	Str	lim	Wk		EPy		3			25		
LS16-69		50.85		QV	Non-uniform SCH-lam. Grey mottled compositional (light grey/ grey) quartz - rich and chlorite rich folae / lamina - discontinuous and somewhat obscured or mottled. Generally 1% very fine grained, (shiny, striated) pyrite cubes. Oxidized and pitted with increased sericite at (52.10 - 52.25 m).	lim	Str											
LS16-69		51.61	57.78	SCH-i	SCH-lam-nu		carb	Mod	lim	Mod		EPy		3			5	
LS16-69		57.78	58.1	QV Zone	Quartz veins + non uniform SCH-lam. 2 QV's; upper contact one is 7 cm wide, lower contact on is 12 cm wide. Both appear to be foliaform. Host rock in between 2 QV is an altered non uniform SCH-lam with strong patchy (irregular - 15%) off white calcite - chlorite alteration with up to 5% fine grained, disseminated, euhedral, shiny, striated pyrite. Weakly pitted on lower contact side. The host rock represents 20% of this interval. beige). Some local zone of high disseminated, fine grained, euhedral (shiny) pyrite up to 7% (average across sub-intervals ~ 2%. Details of sub-intervals: (58.10 - 59.91) Folae / laminae obscured by strong chlorite - calcite + pyrite up to 10% locally in folae bands. Calcite occurs as white specs and very small patches (mm) about discontinuous quartz rich compositional phases. Chlorite locally spotty and elongated patches following folae. Original texture obscured. (59.91 - 60.73) Pale beige silica flooded zone - much less mafics chlorite --> sericite leaving high density "pyrite cluster trains" following the much thinner sericite folae; thicker quartz rich folae average < 1 mm wide - texture preserved by slightly lost due to hydrothermal alteration. 5% disseminated, very fine grained pyrite. (60.73 - 61.09 m) Fault Breccia - mottled grey and white - healed breccia; brittle deformation of quartz-rich compositional layers. Local silica and off white calcite - interstitial to fragments; clasts are obscured by chlorite - calcite alteration but appear to be milled quartz (off white). Competent core - healed. Disseminated, euhedral / anhedral pyrite - 1% in matrix particularly marginal to quartz fragments. (61.09 - 61.24 m) FLT oxidized; Semi consolidated oxidized section of orange - rust gouge + rock crush and chips including grey - glassy quartz and decomposed SCH. Material very oxidized - no sulphides observed.	carb	Str	lim	Wk	Carbonate - weak to trace.	EPy		3		Epy trace to 3%.	60		
LS16-69		58.1	61.24	SCH-i	SCH-lam-nu	mottled greenish - grey (chlorite) + white (quartz) with and increase of white quartz as discontinuous compositional losenge shaped layers and quartz sweats; at ~ 64 m the section becomes more uniform, rhythmic folae / laminae - yet still deformed. The bottom part of this interval is rusty - orange oxidized and partially fractured and broken. Details: (61.24 - 63.0) Greenish - grey (chlorite - sericite) and off milky white (quartz) mottled and obscured layered texture. Local strong calcite - interstitial patchy. (63.0 - 63.32) White patchy mottled possible nose of fold with increase white interstitial calcite - oval forms. Increased pyrite - some in white calcite. (63.32 - 67.77) Weakly pale beige - greenish - grey hydrothermally altered, more uniform rhythmic compositional folae / laminae with increased pyrite along chlorite / sericite folae as euhedral cluster trains 3-5%. Becoming weak to moderately oxidized at bottom of this sub-interval. (67.77 - 70.69) Rusty, oxidized, partially broken, fractured core. Relatively more non-uniform WRI above sub interval. Brittle / ductile 1% very fine grained pyrite in oxidized folae. Noted fracture along core axis (0 degrees tca) with clay 3 mm wide. (70.69 - 70.89) Brittle deformation white glassy quartz + trace very fine grained pyrite along fracture; foliaform quartz vein forms lower contact at 80 degrees tca.	carb	Str	lim	Tr	Limonite locally strong.	EPy		2		Epy up to 5% locally.	5	
LS16-69		61.24	70.89	SCH-i	SCH-lam-nu	/ laminae generally grey overall with sub-intervals of rust - orange oxi; SF pale beige - wk - mod hydrothermal alteration. Details: (70.89-72.0) Pale beige with local rust; uniform rhythmic folae / lamina - local lim along folae. Weak 'tiger texture' at HW contact ~ 80 degrees tca. Weak hydrothermal alteration (SF) paling the texture slightly. Including py - vfg, eu, cubes along select folae (mica - ser rich). (72.0-73.16) Even rhythmic alternating dark and light folae / laminae ave 2 mm thick; very pyritic along folae - fg, eu (shiny) 5-10%. (73.16-73.86) Rust orange, oxi, broken and fractured core; fractures at 0 degrees tca. (73.86-74.67) Increased dis-jointed qtz rich compositional layers / foliaform veinlets; selective oxi of layers / folae; uneven thickness of folae / laminae. Local white specs of cal. (74.67-76.0) Pale beige; mod SF SCH-lam; S3 crenulation cleavage developing near end of this sub-interval. 2 foliaform quartz sweats with chl - cal - py enhanced margins. (76.0-76.9) Irregular, more deformed with increased foliaform qtz lenses; including cal-chl alteration. One qtz lens (6 x 8 cm) has large (3 x 3 cm) os - vug with lim coating 1-10% py locally. (77.1-78.96) Chl - cal altered section; overprint and spotted (chl dark green) texture. Pale beige - hydrothermal alteration (mod) and bottom third of section. Folae / laminae at uniform 70 degrees tca - planar. (78.97-78.25) 1/2 dozen boudinaged qtz losenges SCH-f meta-rhyolite; Beige tan section with patchy quartz sweats margined by irregular chlorite lining + characterized by the central part of this interval over 20 cm. 10 - 20% of those sweats contain white specs of calcite. Decrease in pyrite not SCH-lam unit - trace pyrite; very fine grained, disseminated, euhedral shiny cubes. This unit is not compositionally layered. Foliation noted by sericite within a quartz (fel?) rich phase. Foliation becomes more ductile towards LC which maybe a knife edge fault contact between this unit an the one below. Lower contact oxidized, deformed ~ 90 degrees tca.	carb	Str	lim	Wk	Limonite locally strong	EPy		2		Epy trace to 3%.	25	
LS16-69		70.89	79	SCH-i	SCH-lam	Upper contact reveals warped folae / laminae with up to 5% local pyrite 'cluster trains' along folae. Chlorite - pyrite increased at margins of 3, 4 quartz losenges (foliaform). (81.16 - 81.70 m) FLT oxidized, Rusty orange, broken, oxidized, partly decomposed SCH-lam core + 5% rusty gouge + 15% crush - no quartz.	carb	Mod	lim	Mod	Limonite varies from trace to moderate to strong.	EPy		2		Epy 1 up to 7%.	10	
LS16-69		79	80	SCH-f	for the most part obscured by overprinting, interstitial chl - cal alteration. Local dark sub-intervals of increased py; one sub-interval of very pale intense/ extreme SF + megacrystic eu py. LC with a foliaform QV (?) at ~90 degrees tca. Details: (81.7-83.4) Mottled-spotted 'leopard' texture chl overprints 2-3 mm dia with off white cal invading qtz rich compositional layers. Ser also prevalent but not spotted; green-grey off white. (83.6-84.55) very similar to 81.7-83.4 m; including cal-chl alteration + py towards LC. (84.55-84.74) Rusty oxi break near UC of this sub-interval. Extreme color carbonate - chl (darker) alteration. Increase clusters of fg, eu, cubic py. (84.74-85.45) Mixed severe chl-cal + py alteration; 'windows' of relic folae/ lamiae locally noted. Chl - dark green - grey along, spotty, 'leopard', moth-eaten textures overprinting or obliterating folae texture. (85.45-85.9) Oxi rusty to dirty brown-grey. Pitted along laminae. (85.9-87.2) Dark, extreme cal (white) + chl (dark) swirly - streaky to motheaten texture 3-5% clustered pyrite. (87.4-88.71) Upper half spotted and patchy chl-cal alteration bottom half: becoming more hydrothermally altered. Mod SF. (88.71-89.12) Pale beige; extreme SF - hydrothermal alteration texture completely washed - smooth homogeneous texture almost like a chert. Very bright shiny py; a few cubes of 1 cm across - eu. 3 white veinlets up to 6 cm across - interpreted 2 QV's (possibly foliform) separated by a section of wall rock - altered SCH-lam.	lim	Tr				EPy		0.1					
LS16-69		80	81.7	SCH-i	SCH-lam		lim	Str		Limonite - moderate to strong	EPy		3					
LS16-69	81.7	93.86	93.86	94.81	SCH-i	SCH-lam	carb	Str	lim	Wk	Limonite - trace to weak to strong	EPy		2	Gn	0.1	Epy trace to 3%	5
LS16-69		93.86		QV Zone	2 QV's (possibly foliform) separated by a section of wall rock - altered SCH-lam.	carb	carb	Tr	lim	Wk		EPy		0.1		Epy - trace to 1%.		
LS16-69		94.81	98.64	SCH-i	SCH-lam	(94.81 - 97.41 m) Altered non-uniform SCH-lam. Pale grey, weakly to moderately silica flooded - hydrothermally altered; non-uniform compositional, deformed, contorted folae. Increased foliaform quartz from ~96 - 97.41 m. Lower contact ~ 80 degrees tca. Trace - 2% fine grained, disseminated, euhedral, shiny pyrite. (97.41 - 97.61 m) FLT - small fault; rust, oxidized, broken core + crush and orange rust gouge. No sulphides noted - oxidized, limonite. Broken contacts ~ 80 degrees tca. (97.61 - 98.10 m) SCH-lam - slightly pale green compositional folae - weakly deformed, generally at 70 - 90 degrees tca. Local rust along irregular x-cutting fracture. Folae / lamina are more defined with local dark bands (ie 8 mm wide) with up to 10% fine grained, disseminated pyrite along bands. (97.61 - 98.10 m) FLT - Dark rusty brown; extremely oxidized fine crush + chips (70%) + broken core (SCH-lam; oxi) - 20% + finer material. No sulphides noted - broken contacts ~ 80 degrees tca.	carb	Tr	lim	Str	Limonite - weak to moderate to intense to extreme.	EPy		1		Epy 1 - 5%.		
LS16-69		98.64	99.27	SCH-i	SCH-tig	SCH-tig - Deformed grey and white wisps of dark green - grey coarse grained chlorite and light grey quartz; upper half of interval selectively oxidized - rusty patches and bands. Texture becoming streaky and spotty (chlorite) towards lower contact ~ 35 degrees tca.	lim	Mod			EPy		2					
LS16-69		99.27	99.77	SCH-i	SCH-lam-nu	Non-uniform SCH-lam + fuchsite. Beige grey upper half - felsic fine lamina / folae deformed at ~ 60 degrees tca becoming uneven compositionally with increasing quartz folae / laminae (in thickness as well). Local fuchsite noted. Pyrite fine grained, disseminated euhedral and shiny - about 1% (unit looks a bit transitional in texture (SCH-f).	lim	Wk			EPy		1				0.1	
LS16-69		99.77	101.55	QV	QV / FLT; Mixed interval of broken milky quartz foliaform (?) sweats; oxidized and hydrothermally altered (paled) planar foliated chips and core; and fine creamy white crush and gouge. Lithology is becoming a SCH-f. Local very oxidized pits in white fractured quartz. Some quartz maybe x-cutting but difficult to assess as much of the core is broken; local trace chocolate pyrite (pyrite - limonite) medium grained, euhedral cubes in quartz. Other very fine grained, disseminated pyrite along pl folae also noticed in SCH-lam (?).	lim	Str				EPy		0.1				15	
LS16-69		101.55	104.82	SCH-f	SCH-f transitional. This interval shows a mixed compositional banding of white quartz wavy bands and moderate contrasting chlorite / sericite bands; white bands are thicker up to 1 cm wide (average 1/2 cm wide); moderate grey bands are a bit thinner 1 - 5 mm wide. The unit becomes a felsic rich (laminated unit at the end). Details: (101.55 - 102.0) Rusty oxidized brittly deformed at contact - broken. Trace rust specs - disseminated limonite; probably one pyrite. (102.0 - 103.0) Alternating; non uniform; irregular wavy bands of white quartz (fine grained - sucrosic) up to 1 cm thick; and contrasting darker moderate grey / grey - beige mica (chlorite / sericite) rich wavy irregular bands up to 5 mm thick. Grey - beige bands are felsic in nature. Trace euhedral, rusty pyrite --> limonite noted throughout sub-interval; 70 - 90 degrees tca (banding). (103.0 - 104.82) Uneven interval of alternating white quartz bands and losenges grading down hole to a more wavy beige finely foliated felsic rock. Deformed folae. --> local off white - cream carbonate (?) associated with some quartz losenges.	lim	Tr				EPy		0.1					
LS16-69	104.82	108.22	SCH-f		SCH-f - Generally a beige colored felsic rock, foliated - planar to warped; generally at 65 - 85 degrees tca. Numerous quartz (white) foliaform 'losenges' and irregular sweats with dense (2 mm) sericite linings / selvage. Pyrite rare ad more prevalent in upper half of interval: rusty euhedral, cubes pyrite --> limonite. Last core at 85 degrees tca; noted with specs in beige felsic rock (meta-rhyolite); dark green chlorite - recrystallized along some folae; contrasting quartz sweats (white - light grey) alternating with chlorite (finer - irregular) and beige meta-rhyolitic alternating with chlorite (finer - irregular) and beige meta rhyolitic. E.O.H.	lim	Wk				EPy		0.1				20	
LS16-70		2	2.2	OVB	Rubbled core.													

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-70	2.2	8.3	SCH-i	SCH-yel	(2.20 - 7.58 m) Brittle - ductile deformed SCH-i with a SCH-yel overprint. Rust - orange beige colored brittle - ductile deformed unit; with local crackle - fracture texture and infill medium grained to coarse grained mica (chlorite - sericite) - chaotic pattern. Maybe within a fault or thrust zone. Local compositional banding of quartz rich material (light) and darker micas. Quartz > micaceous content. Pyrite noted as trace disseminated oxidized fine grained, cubes --> limonite. (7.58 - 8.30 m) FLT oxidized; very rusty - orange broken core (60%) + fines and clay gouge. (40%) core is as described above 2.20 - 7.58 m. Predominant limonite coating fracture surfaces with lesser MnO2. Only trace fine grained, euhedral pyrite --> limonite seen in a few of the broken core; very oxidized.	lim	Str					EPy	0.1			5	
LS16-70	8.3	12.28	SCH-i	SCH-yel	white; 0.5 - 1 cm thick) + (chlorite - sericite - dark; 1-2 mm thick wispy) SCHIST with weak 'tiger texture'. (9.14 - 9.30 m) QV (9.30 - 11.85 m) Altered SCH-tig deformed - crackle breccia. Grey with rust sub-intervals; contorted - deformed light quartz - rich compositional banding and dark to almost black chlorite wisps and discontinuous folae / laminae. Upper contact section (9.30 - 9.85) reveals low angle compositional bands dragging into a streep upper contact at 9.30 m ~ 80-90 degrees tca. The section becomes more moderate tca (S2) with a cross cutting set of S3 crenulation cleavage at moderate angles tca. S2 lamina - chlorite are very dark grey to black and discontinuous wispy - selectively oxidized. ~10.50 m the interval becomes more brittly deformed with a jigsaw texture of dismembered compositional banding with increased oxidation - limonite/ rust. Lower contact deformed ~ 60 degrees tca. Pyrite is trace and occurs as clusters of euhedral cubes --> limonite rather than single disseminated crystals. (11.85 - 12.28 m) FLT - creamy - oxidized. Cream to rust colored clay - sericite - limonite gouge (70%) + white - grey quartz crush and chips; and sericite (coarse grained) quartz schist fragments (30%). A foliaform quartz veinlet (1.5 cm thick) at 90 degrees tca marks the lower contact. One of its selvages is pitted black with MnO2 and rare pyrite (@ 12.22 m).	lim	Str				EPy	0.1		10			
LS16-70	12.28	15.46	SCH-i		wispy chlorite --> "SCH-tig". Shearing occurs at 70 degree tca and there is minor clay - sericite slip gouge on one planar fracture. Trace - locally 1%, fine grained, disseminated pyrite distributed unevenly across interval lower contact 'drags' (folded) into QV below; maybe x-cutting; lower contact 70 degrees tca. (12.62 - 12.80 m) QV - small quartz vein (~16 cm thick) just off shared nose of fold; possibly x-cutting wall rock schistose fabric dragged into selvage / envelope area - difficult to asses. (12.80 - 15.32 m) Sheared SCH-tig (grading to a SCH-lam; non-uniform). Rust + multiple shades of light - moderate grey brittle - ductile deformation SCH-tig; well developed S3 - uniform (50/ m) at 35 degrees tca + minor black (graphite - carbon rich) "sooty" fracture fill perpendicular to S3 in one area (12.90 - 13.0 m) Sheared S3 / D4 (?) fabric may include SCH-lam (non uniform) and by ~ 14.0 m it is an apparent rock unit for the remaining 2/3 of this interval. Details: (12.8 - 14) Sheared SCH-tig; pronounced S3 (D4?) + 1 - 3 mm thick dolomite stringer at 40 degrees tca - permeates local folae; pyrite unevenly distributed. (14 - 15) Low angle tca deformed SCH-lam (non uni) + 1 x 1 mm thick dolomite stringer (off set) at 90 degrees tca - permeates foliation. Pyrite along folae. (15 - 15.32) Broken core; deformed and sheared. Pyrite occurs as very fine grained, euhedral, shiny cubes.	carb	Mod	lim	Mod	Limonite alteration from strong to moderate to weak	EPy	0.1		5			
LS16-70	15.46	15.93	SCH-i	SCH-yel	SCH-yel - pale beige with weak yellow - orange rust stain, sericite - quartz schist; ductile deformation with noted lenses and foliaform veinlets of grey (light) quartz. Predominant sericite is medium to coarse grained; pyrite is in trace amounts - very fine grained. Upper contact with QV is 85 degrees tca; lower contact with pyrite rich SCH-lam is 25 - 30 degrees tca wavy adn conformable.	lim	Mod				EPy	0.1			20		
LS16-70	15.93	16.86	SCH-i	SCH-lam	Dark grey (gradational) SCH-lam (pyrite rich) - good marker ? Upper 2/3 rds of this interval is a distinctive dark grey --> wavy crenulated foliation; key observations is the high pyrite content. Pyrite occurs as fine grained, euhedral, shiny cubes along wavy folae; locally as 'dense cluster trains up to 15%. Schist is mica (chlorite) rich. Bottom 1/3 rd of this interval: gradationally there is a more --> defined compositional banding - particularly the light grey quartz rich zones which are up to 6 mm thick. Increasing S3 (D4) density (~100 / m) at 35 degrees tca. The pyrite content decreases in this bottom third of the interval; 7% locally down to 1%. Pyrite are along folae; syngenetic. SCHIST is slightly quartz rich. Key features: 1) dark grey color, 2) high pyrite content ~ 10%; along folae, 3) Pronounced S3 (D4) *close to black smoker vent facies ??? Lower contact at 70 degrees tca to QV (x-cutting). (16.72- 16.86 m) QV banding are generally at steep angle tca. Details: (16.86 - 18.64) Grey with some rust; compositional banding (light grey quartz + dark green - grey chlorite - sericite) not even; non-uniform; 5% off white blotches up to 3 mm of calcite alteration - along folae. 1 - 5% fine grained, euhedral (shiny) pyrite cubes in clusters and along folae. (18.64 - 21.0) As above but strongly oxidized with local selective intense oxidation on some bands. Slight increase in brittle deformed quartz (iron stained) foliaform veinlets / sweats; increased black MnO2 stain on some fracture usually parallel to foliation. Folae steep tca. (21.0 - 24.0) mixed: (21.0 - 21.5) as above, (21.5-21.75) fair oxidation on low angle folae tca + rare pitting; (21.75 - 22.64) nose of fold + intense oxidation. (24.64 - 23.0) Quartz vein (dirty oxidized) injection in shear past above nose of fold multi colored rust - orange - white - black in brittle fracture foliaform(?) quartz with 5% overprinting off white blotches (1-3 mm) of calcite. Minor black fracture fill --> serpentine? or very black chlorite. Increase pyrite in quartz as well as in the mica (chlorite - sericite) selvage wrap. (23.0 - 24.48) Intensely oxidized interval; small clay - limonite - MnO2 shear at 25 degrees tca at 23.01 m. Folae / laminae deformed 0 - 90 degrees; some S3 (D4) development pyrite --> rust / limonite local pits as a result of leaching.						EPy	10		Epy - 5 - 10%			
LS16-70	16.86	24.48	SCH-i	SCH-lam-nu	some S3 (D4) development pyrite --> rust / limonite local pits as a result of leaching.	carb	Mod	lim	Str	Carbonate - patchy.	EPy	2			Epy 1 - 3%.	10	
LS16-70	24.48	24.69	QV		QV - 20 cm thick fractured with a drag fold leading into it from the hanging wall side; foot wall side is broken; vein occupies a fault.	carb	Str	lim	Mod		EPy	0.1					
LS16-70	24.69	28.83	SCH-i	SCH-lam	SCH-lam +/- leaching and oxidized. Mixed interval of SCH-lam; Details: (24.69 - 26.0) Mixed: (24.69 - 24.88) Severely oxidized - rusty and leached; pitted. (24.88 - 26.0) Grey SCH-lam - weak compositional folae / laminae; 20% foliaform quartz sweats 1-5 c wide with lesser patchy calcite - sericite - MnO2 +/- pyrite assemblages. Locally pitted about these assemblages with the sweats. 25.35 - 25.50 is a rusty area (oxidized - limonite) at the nose of a fold. Some S3 / D4 development at 30 degrees tca. Trace pyrite along them. (26.0 - 26.93) Strong pervasive calcite alteration; locally as spotted (white) patches with green - grey chlorite. Weak compositional banding texture - discontinuous. (26.93 - 27.68) Brown to weak brown rust; leached, pitted SCH-lam; local increase of black MnO2 coating / encrusting vugs and pits. Very large (3 x 3 cm) cavity encrusted in limonite / MnO2 at 25.55 m. Much of the calcite leached out of this sub-interval. (27.68 - 28.83) Very similar to 26.0 -26.93 m. Shallow - moderate folae tca. 10% partially leached / pitted (margins) quartz lenses / sweats. Strong pervasive calcite alteration.	carb	Str	lim	Str	Limonite strong to trace locally.	EPy	1		Epy up to 2%.	5		
LS16-70	28.83	29.07	QV		Complex vein - white calcite + pyrite + serpentine + rhodochrosite. Unique vein comprising: 1) 75% cream - white calcite with 1-3 cm irregular vugs lined with stubby medium to coarse grained x/n scalenohedrons. The white calcite has very fine grained rusty - rimmed cubic pyrite (1%) disseminated throughout it. 2) 15% dark green / black serpentine blebs - largest one is 4 x 1.5 cm primarily along margins of vein. 3) 5% --> light grey foliaform quartz wrapped (discontinuous) along upper and lower contact - irregular. 4) 5% --> pink rhodochrosite as fine grained blend with white calcite - ovoid shapes - average size 1 x 3 cm. Upper contact - irregular ~ 65 degrees TCA; lower contact - 40 degrees tca.The calcite assemblage seems to have invaded a foliaform (cracked) quartz sweat; it's a phase injection - multi-phase injection - multi-phase system. laminate and darker chlorite - sericite folae / laminae. Not as well defined as in after intervals. Local sub-interval include; moderate oxidization and leaching of this SCH-lam; and isolate quartz sweats foliaform. Details: (29.07 - 30.0) Brown - grey; partly leached and oxidized sub-interval. Moderate limonite + MnO2 stain on fracture surfaces. Pitted locally along folae; pits are 1-4 mm across. Pyrite as 2%, fine grained, euhedral grains and clusters. (30.0 - 32.31) Less oxidized sub-interval than above; increase in calcite alteration as white specs (1mm) in patchy (5-7 cm) areas. Weak S3 (D4) development with trace pyrite at 30 degrees tca - cut across S2 folae (at 50 degrees tca). (32.31 - 32.62) 2 x grey white quartz sweats at 70 degrees and 80 degrees tca, respectively. Trace pyrite in quartz sweats and 2% fine grained, disseminated, euhedral pyrite in SCH-lam wall rock in between quartz sweats. (36.62 - 35.54) Altered SCH-lam; moderate to strong calcite +/- chlorite with local spotty and leopard texture - very apparent in the bottom 2 cm at lower contact with QV. Local pittig / leaching at (33.90 m). Numerous D4 kinks ~ 50 degrees tca associated with local fine grained, euhedral, disseminated pyrite + limonite. Lower contact at 80 degrees tca. (35.54 - 35.71 m) QV - dirty, 12 cm wide very fractured; 'old' foliaform quartz sweat.	carb	Str	lim	Wk		EPy	1		5			
LS16-70	29.07	35.71	SCH-i	SCH-lam	ductile deformed soft sediment deformation? Local cal - chl alt. textures noted. Very homogenous interval of compositional layering. Some details: (35.71-36) oxi and partially leached. (36-37) Grey SCH-lam; including cal alt. (37-38) Includes 1 qtz lens (6x7 cm); marked increase in py (fg, eu, shiny) clusters and trains along folae; weak S3 (D4) development. (38-39) Wavy - ptygmatic deformation of lam/ folae. (39-40) S3/ D4 development associated with lim and py (fg, eu, dis, shiny). (40-41) Wk S3/ D4 throughout interval; 2-5% py some associated with S3/ D4. (41-42) Increased qtz sweats - deformed (ductile); hem stained associated with some sweats (margins) D4 kink at 45 degrees tca. (42-43) Include D4 kinks - 5 in this interval - associated with py including: cal - chl alt. with spotted and leopard texture; py associated with D4 in some cases. (43-44) Including spotted chl alt. More defined D4 (less in #) + more defined py trains along folae - particularly associated with D4 but less py content. (44-45) Folae steeper tca; typically SCH-lam; very rhythmic, very monotonous and predictable. Folae wavy deformed with mod S3 development. (45-46) increased chl-alt spots with above; slight decrease in py. (46-47) Although very deformed, most lam/ folae are at steep angles tca; noted decrease in dis py; well developed chl - alt. spotted texture. (47-48) identical to above sub-interval (no qtz sweats). (48-49) wk QV - snow white; large (~46 cm) QV with broken contacts; both foot wall and hanging wall have drag folded SCH-lam. Vein occupies structure / fault (D4??).	carb	Str	lim	Wk	Limonite - trace to weak to moderate.	EPy	2		Epy trace to 2%.			
LS16-70	35.71	49.54	SCH-i	SCH-lam	leached and differentially weathered with a high syngenetic py content (50-51). Qtz sweats appear in abundance (51.32-52.2) and again, to a lesser degree from (55-56). The interval is more or less consistently homogeneous to 67 m. Afterwards is an increase in epi alt. to the LC at 68.74 m. Details: (50-51.32) Sf (mod), oxi UC. Abundant py as cluster trains along folae. Drag folded into UC with gouge + crush. (51.32-52.2) Increase in qtz sweats; some white cal spec assoc with qtz sweats. (52.2-53) wk rust; some local qtz sweats locally leached and pitted. (53-53.83) oxi; fra and somewhat broken core; local leaching and pitting. (53.83-55) Grey monotonous SCH-lam; wavy def. (55-56) As above + slight increase of qtz sweats. (56-57) Monotonous SCH-lam + 2 foliaform qtz sweats 1 and 2 cm thick. (57-58) Increase white cal along folae and within qtz sweats. (58-59) Increase spotted chl; strong cal speckled in qtz sweats. Small increase in py; mod S3 at 5 degrees tca. (59-60) Similar to above; typical grey; wavy def compositional banding / folae; poor S3. (60-61) wkly mottled and spotted chl overprints - wkly developed. Halfway thru interval black graphite (carbon) along folae - as fine lines. (62-63) mod spotted chl alt; less def lam / folae at 40 degrees tca; mild increase of graphite - black sooty carbon rich. (63-64) mild increase of graphite along folae - as above; folae wavy at 50 degrees tca. (64-65) increase in qtz	carb	Str	lim	Tr	Limonite locally moderate to strong.	EPy	3		Epy ranging from trace to 5%.			
LS16-70	49.54	50	QV			lim	Wk										
LS16-70	50	68.85	SCH-i	SCH-lam		carb	Mod	lim	Wk	Carbonate ranges from weak to strong. Limonite - trace to strong	EPy	2		Epy ranging from trace to 5%.	5		

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
LS16-70	68.85	76.48	SCH-i	SCH-lam	0.5 cm) and compositional layering (fake). LC sharp with FLT below at 50 degrees tca. Very oxidized at contact with local brittle def on qtz sweats. (69.25 - 69.67 m) FAULT oxidized. Very rusty - orange oxidized interval comprising: 80% rusty orange gouge + fine crush; + 20% broken decomposed rusty core with 50% foliaform (?) qtz. No visible sulphides due to severe oxidation. LC at 25 degrees tca. (69.67 - 69.84 m) QV - dirty mottled QV ~ 16 cm thick with fracture fillings. (69.84-76.33 m) Altered SCH-lam; Long interval with varied alt in SCH-lam. Details: (69.84-71) Mod to intense spotted chl overprint alt. Local wk leopard texture; tr, dis, eu py. (71-71.75) Str - intense cal alt; weak S3 foliation. (71.75-72.08) Increase in qtz veinlets / sweats both foliaform and x-cutting. (72.08-73) White foliaform sweats; locally streaky. (73-74) Local intense spotty chl in this sub-interval. Stronger carb - some along folae - hairline thick. (74-74.52) Fractured core - 5 degrees tca; oxi surface with intense lim; 3 cm thick qtz - cal lens; no py. (74.52-75.19) Increased paling (SF) and slightly leached with increase py (up to 5% at very end of this sub-interval); locally oxi as well. Py as cluster trains along folae. (75.19-75.42) Sheared broken nose of fold in SCH-lam - oxi, SF. (75.42-76.13) SF (wk - str) - SF at UC near nose of fold --> increase in py particularly in SF upper half; almost a phyllic alt ser - sil - py. Locally pitted and oxi. (76.13-	carb	Str	lim	Mod	Carbonate ranges from moderate to intense. Limonite - ranges from trace to intense.	EPy		2			Epy ranging from trace to up to 5%.	10
LS16-70	76.48	81.87	SCH-i	SCH-lam	(76.48-79.06 m) Altered SCH-lam; General description of spotted chl overprints on poorly developed SCH-lam. Details: (76.48-78.22) Fuchsite at 76.80 m; some local bands (4 cm) wide with up to 10% eu shiny pyrite --> 76.63 - 76.65 m; spotted chlorite overprints - intense. Pale (SF) towards LC of this sub-interval. (78.22-78.45) SF and oxidized hydrothermally altered - broken core. (78.45-79.06) Increase cal alt; + chl alt has obscured SCH-lam; appears more non-uniform. (76.09 - 79.25 m) QV's (79.25-81.87 m) Altered SCH-lam grading to non-uniform with fuchsite. Variable SCH-lam interval with the following details (79.25-80.38) Intermittent spotted dark green chlorite alteration overprints + increase in light grey quartz sweats. (80.38-80.56) Quartz sweats with green fuchsite in it's hanging wall envelope. Quartz sweat - complex; sheared and white (1-2 cm) blobs of calcite - 2% pyrite throughout wall rock. (80.56 - 81.87 m) monotonous non-uniform silica flooded. Silica flooded light pale grey quartz - sericite SCH + fine grained disseminated shiny, euhedral, cubic pyrite.	carb	Str	lim	Wk	Carbonate ranges from moderate to strong; Limonite ranges from weak to moderate.	EPy		2			Epy ranging from trace up to 5%.	5
LS16-70	81.87	83.53	SCH-i	SCH-lam-nu	SCH-lam; non-uniform. Generally this interval is greyish with compositional banding/ folae becoming variable - in thickness and there are many more irregular quartz sweats. These quartz sweats, lenses and "loosenges" are discontinuous and have an enriched lining 1-2 mm wide of darker chlorite (sericite) +/- fine grained, euhedral pyrite (shiny) cluster trains and small (1-3 mm) patches in embayments within the sweats. The pyrite along these sweats is often associated with calcite. This interval is weakly silica flooded - hydrothermally altered.	carb	Mod	lim	Tr		EPy		5			50	
LS16-70	83.53	83.84	SCH-f	SCH-lam-nu	SCH-f - Tan to greenish tan - homogenous unit of foliated (wavy) quartz (feldspar?) sericite SCH. 5% dark spots or blemishes of chlorite +/- sericite. Minute specs of trace anhedral pyrite - very rare. Upper contact - wavy deformation at 55 degrees tca - conformable. Lower contact - wavy deformation at 45 degrees tca.	carb	Tr				APy		0.1				
LS16-70	83.84	85.82	SCH-i		SCH-lam non-uniform; Very similar to (81.87 - 83.53 m) but with less white quartz sweats. Folae / laminae fairly even at 40 degrees tca. Noted 1-3% black sots ~ 1 mm. Possibly Fe - chlorite +/- MnO2?	carb	Tr				EPy		3			20	
LS16-70	85.82	86.7	SCH-f	SCH-tig	SCH-f - variable; Generally a tan felsic unit - fine grained; weak foliation; trace very fine grained, anhedral pyrite. Details: (85.82 - 86.49) Tannish - greenish with quartz sweats with weak chlorite - calcite leopard texture. (86.49 - 86.70) Contains a white 5 cm foliaform quartz veinlet at 86.60. (86.70 - 87.22 m) SCH-i; Contorted, deformed interval of wispy greenish chlorite with beige - tan quartz (feldspar?) compositional discontinuous bands / layers up to 3 cm wide (average 0.5 cm) - deformed lenticular shapes. Chlorite is coarse grained - deformed and sericite is noted as well. Pyrite is fine grained and unevenly distributed.	carb	Wk				EPy		0.1			15	
LS16-70	86.7	87.22	SCH-i		(87.22 - 87.40 m) FLT - Broken quartz (milky white) + 60% white - creamy white (brucite?) + talc - coarse grained SCH. Lower contact at 30 degrees tca.	carb	Tr				EPy		1			30	
LS16-70	87.22	87.4	SCH-i	SCH-f	SCH-f - variable +/- talc. Transitional unit with upper half of beige tanish green colored felsic schist grading and changing into grey tones. Local shearing with creamy - white greasy slip planes - brucite? talc. Trace pyrite in SCH-f but up to 2% pyrite in other variable derivatives. Seems to be a confusing mix of felsic schist and spiced in paled talc - sericite rich lithology - both similar colors; complex section.						EPy		0.1			20	
LS16-70	94.1	94.67	SCH-m		Altered SCH-m pale talc rich. Coarse grained wispy talc (serpentine?) + darker wispy very coarse grained deformed chlorite. Milky white quartz lenses are much lesser ~ 5-10% of interval pyrite occurs as anhedral clusters in deformed mica ambayments.						EPy		0.1				
LS16-70	94.67	94.87	QV	SCH-lam	~23 cm thick irregular quartz sweat. White, massive, weakly fractured; 1S WRI associated with anhedral patches (very small 1-3 mm) pyrite + other sulphide --> semi-metallic black.	carb	Wk				APy		0.1				
LS16-70	94.87	95.22	SCH-i		SCH-lam + pyrite. Compositional bands of light grey quartz (deformed) - very white (albitized?). 60% + sericite (chlorite) medium grained mica 35% + layered 'cluster trains' of pyrite along folae. This SCH-lam may have been splice into place. Hydrothermally altered.	carb	Wk				EPy		5				
LS16-70	95.22	95.65	QV	SCH-i	QV - 40 cm long massive white possibly foliaform vein (?) with large irregular inclusions of black serpentine (10%) and 3% white interstitial calcite.	carb	Wk				EPy		0.1				
LS16-70	95.65	99.2	SCH-i		SCH-i quartz rich; Light grey deformed silvery altered compositionally layered quartz rich (albite?) deformed discontinuous mottled bands (6 - 7 mm) with lesser interfoliated silvery sericite (chlorite). Trace disseminated pyrite.						EPy		0.1				
LS16-70	99.2	99.56	QV	SCH-f	QV - 30 cm milky white possibly foliaform QV; milky white to snow white clean quartz vein with slightly brighter interstitial calcite (5-7%) - 2-3 mm across 20% chlorite - rich WRI. Rare very fine grained, trace pyrite along fracture.	carb	Mod				EPy		0.1				
LS16-70	99.56	103.63	SCH-f		Altered SCH-f - variable. Variable alteration in SCH-f. Details: (99.56 - 101.0) Tannish - greenish foliated - crenulated sericite rich (coarse grained) - quartz schist + 20% discontinuous quartz lenses. (101.0 - 102.05) as above; increase of very coarse grained chlorite wisps and (102.05 - 102.37) Strong calcite overprinting alteration as 3 mm splotches. Dark chlorite coarse grained wisps. Trace anhedral pyrite - disseminated; hydrothermally silica flooded. (102.37 - 103.63) Hydrothermally silica flooded with deformed wavy quartz rich light grey bands 4-5 m thick with much lesser (1 mm thick) black chlorite interfolae - discontinuous. E.O.H.	carb	Tr	lim	Tr								
LS16-71	2.9	6	OVB	SCH-yel	85% brown dirt - "B horizon soil" + 15% rubbled core; rare quartz (grey) rubbled small (1-2 cm) quartz chips. The soil appears to be in part 'black muck'.						APy		0.1				
LS16-71	6	7.62	SCH-f		Coarse grained decomposed sericite (talc) quartz SCH, deformed and broken. Light goldy - beige - weak rust colored coarse grained sericite / talc quartz SCH; very decomposed, broken core. White mica is very coarse grained and deformed. Some rare euhedral pits with very weak rust - perhaps where pyrite has been leached out. Last ~ 20 cm is competent core with foliation at 0 degrees tca.	lim	Wk				EPy		0.1			10	
LS16-71	7.62	8.03	QV	SCH-yel	QV - broken core of white - rust (limonite) stained quartz - largest piece is 7 cm.	lim	Wk				EPy		0.1				
LS16-71	8.03	11.02	SCH-f		Coarse grained decomposed sericite (talc) quartz SCH / Fault gouge / Quartz. Mixed complex interval of silvery - goldy deformed broken core of very coarse grained white mica (sericite - chlorite - talc) quartz schist with 20% foliaform grey quartz [8.03 - 9.00 m]; silvery - goldy micaceous (coarse grained) gouge [9.00 - 9.30 m]; broken core + coarse grained sericite (talc) quartz schist with sheared foliaform grey quartz [9.30 - 10.0 m]; silvery - goldy (sericite - chlorite - talc) gouge + clay [10 - 10.7 m]; same as 9.30 - 10 m [10.7 - 10.9 m]; and same as 10 - 10.7 m [10.9 - 11.20 m]. only very fine grained pyrite --> limonite stain.	lim	Wk				EPy		0.1				
LS16-71	11.02	11.4	QV	SCH-tec	QV; milky white with fracture incised; noted several fine to medium grained chocolate / oxidized euhedral pyrite associated with patches of beige WRI (sericite) + fractures.	lim	Wk				EPy		0.1				
LS16-71	11.4	25	SCH-m		Chlorite (quartz) SCH with local SCH-tec texture (appears to lessen as we go down interval). This interval is generally the same through all the sample sub-intervals. Dark greenish grey; S3 and local fine shearing at low angles tca; comprising 60 - 80% chlorite with 20 - 40% grey quartz; chlorite (quartz) schist S2 can be seen locally at steep angles tca. Quartz sweats ~5% and seen at: 15.60 m - 3 cm thick at 30-40 degrees tca - 2% shiny, euhedral, fine grained pyrite associated with white calcite. 19.60 m - 1 cm thick at 45 degrees tca - grey. 24.55 m - very irregular; 2 phase grey quartz; graphite - calcite - pyrite infill??? vugs. Lower contact is gradational at low angle tca.	lim	Wk				EPy		0.1			5	
LS16-71	25	30.47	SCH-i	SCH-lam	(25.0 - 30.10 m) Chlorite (quartz) SCH; Grey, mottled, weak - moderately foliated (no prominent compositional banding) with moderate angles to the core axis (tca) with 5-7% dark black specks of Fe-chlorite (?). Lower contact ends in a sharp contact with fault gouge. Lithology composition quartz - chlorite (sericite) with weak calcite alteration - interstitial. Pyrite generally very fine grained and rare. --> Lower contact at 40 degrees tca (30.47 m); with moderate shearing at 15 degrees tca. - all sample intervals the same as above; except (28.46 - 29.0 m) which is broken and oxidized - noted 1% euhedral shiny pyrite - striated cubes. (30.10 - 30.47 m) FLT - Sharp upper contact at 40 degrees tca of tan color clay gouge crush (5 cm thick) followed by sheared and deformed grey chlorite - quartz SCH.	carb	Wk	lim	Wk	Limonite locally moderate.	EPy		0.1	APy	0.1 Epy up to 1% locally	5	
LS16-71	30.47	31.9	SCH-i		SCH-lam (transitional). This interval is distinctly different in texture than above interval (25.0 - 30.47 m) with a conformable progression - gradational change to compositional rhythmic laminae / folae then faulted or displaced lower contact: Details of sub-intervals: (30.47 - 30.71) Short deformed sub-interval with 40% white quartz (+calcite - chlorite +/- euhedral pyrite) sweats as 4 distinct veinlets 3 mm - 3 cm thick. At 60 degrees tca - deformed. Increased shiny, euhedral, striated cubes of fine grained to medium grained pyrite. Large 'shadow' patch of grey green chlorite 6 x 2 cm. (30.71 - 31.08) Unusual unique texture above laminated SCH-lam (marker???). General fabric: wavy deformed at 55 degrees tca; light greyish - green ovoid - lenticular shapes (~8 x 4 m) in a darker greyish greenish wavy - deformed foliated matrix. The ovoids are calcareous and are bound by deformed graded black 2-4 mm thick lines - they are somewhat stylolitic - organic layer (picture in log). (31.08 - 31.09) First half of this sub-interval is SCH-lam - compositional light quartz rich; dark mica rich +/- trace euhedral (shiny) pyrite cubes; second half is broken oxidized + white fractured milky quartz pieces marking end of compositional banding.	carb	Wk	lim	Mod	Carbonate ranges from fair to strong / intense down to trace. Limonite - trace to moderate / strong.	EPy		0.1		Epy up to 1% locally.		
LS16-71	31.9	39.5	SCH-i		(31.9 - 38.26 m) Calcite - chlorite altered quartz SCH with intermittent white quartz sweats. Grey (greenish) weakly to moderately foliated quartz - chlorite composition (no laminations or banding). Quartz sweats very in intensity; 34.55 - 35.10 has maximum quartz sweats = 40%; texture locally mottled at 38.14 - 38.26 becoming more silica flooded. (38.26 - 39.50 m) Crackle - breccia silica flooded quartz - sericite (chlorite) SCH. Nose of fold. Pale grey to off white crackle fractured hydrothermally altered quartz - sericite (chlorite) schist. Appeared to be a weakly brecciated (crackled) fold with fracture fill of calcite (white) +/- very well shiny, euhedral, cubic pyrite (medium grained).	carb	Mod	lim	Tr	Carbonate ranges from weak to strong. Limonite ranges from trace to weak.	EPy		0.1		Epy up to 1% locally (38.26 - 39.50 m).	10	

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz				
LS16-71	39.5	40	QV Zone		Quartz veins / SCH-i; 2 white quartz veins with pyrite - rich SCH-i in between. Wall rock in between is a grey quartz - chlorite SCH with 5 - 7% fine grained, disseminated, euhedral cubic pyrite. and milky white quartz ranging 3 m to 7 cm across. Matrix (~10%) is a fine grey material + local interstitial anhedral pyrite; some euhedral, cubic pyrite noted in white quartz clasts as well. Minor (3-7%) white interstitial calcite. A shear plane within the breccia has orange - cream clay gouge as is at 55 degrees tca. Bottom half of interval is broken SCH-i core with sheared / laminations at low angle tca (0 - 20 degrees tca). Up to 20% white quartz (foliaform?) also - noted euhedral pyrite associated with WRI in one quartz piece. (41.48 - 43.75 m) Streaky SCH-i; Grey (greenish) streaky; (weakly sheared then healed?) - weak interference pattern (?); quartz - chlorite schist with 1% disseminated, euhedral, cubic, shiny pyrite - pervasive. Details: (41.48 - 42.0) Low angle tca weak compositional banding waffling - sinusoidal - with brittly deformed quartz sweats. Moderate chlorite spotting overprints. Euhedral, fine grained, cubic pyrite noted on margins of quartz sweats. (42.0 - 43.75) Typically streaky texture as described above with 1% disseminated, euhedral pyrite --> masked (chlorite spots) crenulation cleavage at low angle tca. (43.75 - 45.28 m) FLT and shearing; mixed interval of: (43.75 - 44.20 m) broken oxidized core; pieces are sheared with brittly sheared quartz lenses (1 cmx 5 cm) - sheared at 45 degrees tca; competent core (44.20 - 44.90 m) of sheared / streaky, oxidized core - mottled / complex; and broken Quartz veinlets mineralized (galena), 3 irregular, cross cutting milky white quartz veinlets. (45.30 m) - 3 cm thick off white - weak stain with limonite; euhedral pyrite along selvage (shiny). (45.35 m) - 1 cm thick dirty (limonite stained) pitted selvages with pyrite (broken down - dirty pyrite --> limonite) + galena. (45.42 m) 3-5 cm thick dirty (limonite stained) weakly pitted; limonite stain along fractures. Subhedral pyrite noted along selvage.											EPy		5			
LS16-71	40	45.28	SCH-i		SCH-i (changed to QAS due to the presence of BQE's) - low angle + quartz sweat. Generally a (greenish) grey; weakly mottled / chlorite spotted - homogeneous texture in this quartz - chlorite schist; local 'bluish' quartz eyes (porphyroblasts - rare). Portions of interval drilled down foliation or along white quartz sweat (49.0 - 50.0 m). (48.54 - 48.77 m) includes a 0.5 cm wide quartz (calcite) stringer with dark chlorite selvage + euhedral pyrite along it.	carb	Mod	lim	Mod	Carbonate moderate to none. Limonite - moderate to none.		EPy		1			Epy locally 1% and trace.	5			
LS16-71	45.28	45.5	QV Zone		Fault / Quartz vein; oxidized broken schist (chlorite - quartz) core with 10 cm + quartz vein at lower contact.							EPy		0.1	APy	0.1					
LS16-71	45.5	50.63	QAS			carb	Wk	lim	Tr	Carbonate fair to none; Limonite trace to none.		EPy		0.1			Epy locally 1% to trace.	30			
LS16-71	50.63	51.03	QV																		
LS16-71	51.03	53.46	SCH-i		(51.03 - 51.67 m) SCH-i; Grey (greenish) chlorite - quartz schist; drilled down foliation; deformed - wrapped quartz sweats (1 cm thick) at 0-20 degree tca. Trace disseminated, pervasive pyrite thru interval. Relatively unaltered. (51.67 - 53.46 m) FLT - interval - structurally complex - Details: (51.67 - 52.5 m) delaminated chlorite - quartz / quartz sweats with crush + gouge in between lam. Lithology is a quartz - chlorite SCH or SCH-i. (52.5 - 53.46 m) Broken, sheared, crackle breccia core (SCH-i + quartz) wit local increase pyrite in some pieces.	lim	Wk			Limonite ranges from trace to weak to fair.		EPy		0.1			Epy trace up to 1% locally.	35			
LS16-71	53.46	54.34	QV Zone		QV / SCH-i / x-cutting QV / SCH-i - complex interval; details: (53.46 - 53.94) Cracked grey - milky quartz - intensely fractured and sheared followed by broken SCH-i; then a x-cutting QV. (53.94 - 54.34 m) Streaky chlorite - quartz schist; SCH-i.	lim	Wk			Limonite ranges from fair to trace.		EPy		0.1	APy		2 Epy trace up to 1% locally.				
LS16-71	54.34	54.79	QV Zone		QV / SCH-i; Cross-cutting quartz veinlet / sheared SCH-i; SCH-i --> sheared at 30 degrees tca; parallel to foliation; quartz veinlet cross cuts this fine shear.																
LS16-71	54.79	56.3	SCH-i		SCH-i - quartz rich; intense brittle deformation. Off white quartz rich chlorite rich schist - nose of fold, very intensively fractured - intense brittle deformation. Quartz goes 2 ways! 1) banded (average 0.5 cm thick) as warped folded lamination / foliation with dark chlorite - pyrite in between quartz; 2) cross cutting milky white quartz.	lim	Tr					EPy		4			30				
LS16-71	56.3	57.6	SCH-f	SCH-tig	SCH-f with weak SCH-tig texture; Fault gouge - major structure. Cream - tan (with light rust) clay - sericite gouge; matrix supported with 30% sub-rounded clasts - grey altered SCH-i (+/- trace pyrite) - semi-competent core. Clast size average (3 x 2 cm).	carb	Str	lim	Mod	Carbonate - moderate to strong.		EPy		0.1							
LS16-71	57.6	60.96	SCH-m		Coarse grained talc - sericite (chlorite) quartz SCH (altered meta - ultramafic?). Extreme ductilely deformed beige - cream - greyish, coarse grain talc - sericite (chlorite) with boudin - textured off white quartz lenses typically 20 x 10 cm and making up 40% of interval. Trace, rare euhedral pyrite as isolate cubes. Interval drifted down foliation --> 0 - 10 degrees tca. E.O.H.							EPy		0.1			40				
LS16-72	4.3	10.67	OVB		OVB - 20 feet of casing in hole til stable ground achieved. Details: (4.30 - 4.57 m) Black muck dirt + rubble core - 1/2 dozen 1 cm milled / rubbedbed white quartz. (4.57 - 7.62 m) Oxidized broken and partially milled rubbedbed light yellowish - rust sericite quartz schist + 50% light rusty - brown micaceous soil / clay. (7.62 - 7.90 m) 2 pieces of slightly rounded competent core; quartz - rich; partly oxidized quartz - sericite schist + 1% pyrite (euhedral, shiny, fine grained). (7.90 - 9.50 m) Very decomposed; Semi consolidated pieces of quartz rich oxidized sheared quartz - sericite schist with clay shear planes; 15 cm of orange brown gouge at top of this sub-interval 'mushy core'. Up to 1% fine grained, euhedral pyrite --> limonite in decomposed material. (9.50 - 10.57 m) Broken, milled / rubbedbed core comprising: black stained (carbon) schist - quartz -sericite schist and lesser milled grey quartz pieces.	lim	Str			Limonite - strong to moderate.		EPy		1							
LS16-72	10.67	12.5	SCH-i	SCH-yel	(10.67 - 12.0 m) Silvery grey coarse grained sericite - talc (chlorite) quartz SCH with sheared - phacoidal texture. Silvery grey white mica (sericite / talc with lesser chlorite) in very coarse grained warped / deformed greasy flakes - with 30 - 60% grey quartz. Strong S3 crenulated cleavage and shearing with slippery / greasy clay - sericite - talc shear - phacoidal texture. Noted trace - 1% fine grained shiny, euhedral cubic pyrite unevenly distributed. S3 - shear planes at 10 - 20 degrees tca. Lower contact is broken. (12.0 - 12.50 m) FLT oxidized; Rusty - orange sericite quartz SCH (25%) + quartz - sericite SCH core with 2% disseminated, euhedral, cubic pyrite (30%) + rust - orange clay gouge + shear sericite - quartz SCH (MnO2 dots - alteration) at 70% tca (45%).	lim	Mod			Limonite - fair to strong		EPy		0.1							
LS16-72	12.5	16.81	SCH-i	SCH-ptm	(10.67 - 12.0 m); strong crenulation cleavage S3 as low angle tca - shearing. This interval has several textural changes that could suggest a non-uniform SCH-lam. Details of sample descriptions: (12.50 - 13.10 m) rust - oxidized colored; shear - phacoidal texture at 20 degrees tca. Some black MnO2 on shear - fractures faces. No pyrite noted. (13.10 - 14.0 m) Grey - silver; darker chlorite as streaky texture in between more abundant grey quartz. Trace shiny, disseminated, euhedral pyrite cubes noted - unevenly distributed. (14.0 - 15.0 m) Similar to above; slightly more oxidized - rust and rust pitting along folae; slight increase in pyrite content. Very deformed compositional grey quartz / green - grey chlorite banding developing at end of this sub-interval limonite - MnO2 stain on some broken surfaces. (15.0 - 16.0 m) Low angle tca (0 - 25%) deformed - warped weak composition banding --> grey quartz (1 cm thick) alternating with green - grey chlorite (wispy and discontinuous - 1-3 mm thick) +/- increase shiny local cluster pyrite trains (very fine grained, euhedral). This sub-interval is a cross between a poorly developed non-uniform SCH-lam and a poorly developed SCH-tig. (16.0 - 16.81 m) complex strong crenulation cleavage (S3) at 35 degrees tca intersecting contorted an deformed 2 cm wide grey quartz compositional bands with shiny euhedral pyrite (very fine grained). Quartz content in this sub-	lim	Tr			Limonite - strong - moderate - trace.		EPy		1			Epy - trace to 1%.				
LS16-72	16.81	17.17	SCH-f		Fine grained beige SCH-f; Beige (greyish - greenish), fine grained, homogeneous - weakly foliated, competent core with increasing, conformable wisp chlorite at foot wall at 40 degrees tca; upper contact is ~ 40 degrees tca sub parallel to S3 / shear fabric in above interval. Very fine grained, disseminated, euhedral, cubic pyrite is pervasive. Interpreted to be of felsic origin.	lim	Tr					EPy		1							
LS16-72	17.17	19.63	SCH-f	SCH-yel	Pale silica flooded quartz - sericite / talc (chlorite) SCH hydrothermally altered + pyrite +/- galena. This interval is variable in composition and texture; all sub-intervals are pale - washed beige / grey - hydrothermally altered with 1-3% shiny fine grained, euhedral pyrite +/- galena (very fine grained). Details from sample descriptions: (17.17 - 18.0 m) Sharp upper contact at 40 degrees tca; grey - beige - similar to bottom of (12.50 - 16.81 m) but hydrothermally altered and paler color. Streaky and weak shear along S3 chlorite at 40 degrees tca. 1-2% disseminated, euhedral, shiny pyrite cubes along these planes; chlorite --> sericite. (18.00 - 19.00 m) increasing pale beige; contorted foliaform off white bands (1 cm thick) with 1-3% fine grained, disseminated, euhedral pyritic with trace disseminated galena. 40 - 60% quartz in this hydrothermally altered sub-interval. 'washed texture'. (19.00 - 19.63 m) Large (1-5 cm thick) foliaform ?quartz with irregular margins along axis of core. 70% of sub-interval is quartz. Fracture surfaces moderately stained with limonite. 1% pyrite --> limonite. Lower contact at 80 degrees tca.	lim	Mod			Limonite - fair to moderate.		EPy		2			Epy - 1 - 2%.	40			
LS16-72	19.63	20.25	QV		QV - mineralized (pyrite + galena). Complex vein with both foliaform and branching x-cutting quartz. Large white - limonite stained quartz vein. The upper contact branches at steep angle tca and cross cuts small (1cm) quartz sweats which are at 70 degrees tca. Occasional vugs + limonite stain; galena (several specs ~ 1mm) noted in white quartz and bluish - grey blemishes in quartz near in upper pattern of vein. WRI along broken surfaces reveals pyrite (very fine grained) in coarse grained sericite alteration - warped and deformed.	lim	Mod			Limonite - moderate to strong		EPy		0.1	Gn	0.1					
LS16-72	20.25	22.5	SCH-f	SCH-yel	Pale talc (sericite) quartz SCH hydrothermally altered. Altered schist with a dominant pale grey with rust and watery - grey blemishes / tones. Hydrothermally altered. Variable textures; Details: (20.25 - 20.91 m) Paled beige and grey; very coarse grained silvery - white talc (sericite) and quartz SCH with trace disseminated, euhedral, shiny pyrite; greasy micaceous layers; crenulation cleavage. (20.91 - 21.68 m) Broken talc rich quartz SCH core; possible fault but extremely greasy (talc) with some material above and below this sub-interval. Trace euhedral fine grained pyrite associated with foliaform quartz. (21.68 - 22.50 m) Competent core; same as above; foliation at 20 degrees tca. Oxidized streaks/ bands + pale beige and bluish grey blemishes --? possibly graphite or sulphides or both. Lower contact - shear plane at 50 degrees tca.	lim	Tr			Limonite trace, and locally moderate to strong		EPy		0.1				30			
LS16-72	22.5	22.7	QV		Quartz veinlet + wall rock (foliaform). Milky white - possibly foliaform quartz. Upper wall rock is sheared (at 40 degrees tca - paralel to veinlet) and is fine grained beige greenish grey SCH-f? SCH-i. White, massive with weak limonite stain along fracture - no sulphides, 4 cm thick.	lim	Tr														
LS16-72	22.7	23.25	SCH-i	SCH-yel	Pale fine grained weakly foliated sericite - quartz SCH - hydrothermally altered. No compositional layering in this fine grained homogeneous; weakly foliated interval. Pale (greenish) beige color; not quartz rich. Fine grain is the prominent texture.	lim	Tr					EPy		0.1							
LS16-72	23.25	25	QV Zone		Quartz vein + sericite (quartz) SCH wall rock. Complicated vein margins in this interval equating to ~ 40% white quartz. Vein branches and cross - cuts foliation at 60 degrees tca. Trace fine grained pyrite associated with minor calcite along folae.	lim	Wk					EPy		0.1							
LS16-72	25	27.43	SCH-f	SCH-yel	(25.00 - 26.46 m) Pale medium to coarse grained sericite (chlorite - talc) quartz SCH - hydrothermally altered. Pale silvery - beige medium grained white mica (sericite / muscovite - chlorite) with 60% + grey - white quartz sweats. This interval is drilled down core axis; 0 degrees tca. Foliation wavy; crenulated at top of interval. Some black MnO2 stain on fracture surfaces. (26.46 - 27.43 m)FLT - talc rich. Shiny, greasy talc - rich chips of schist (coarse grained talc) with gouge. Goldy - rust color. No sulphides noted. 5% of chips have grey foliaform quartz.	carb	Wk	lim	Wk	Limonite - trace to fair.		EPy		0.1							

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
LS16-72	27.43	30.76	SCH-i	SCH-yel	Appears quite a bit darker than the above unit. (27.43 - 30.57 m) Dark greenish grey shear FAULT BRECCIA. Dark greenish grey, competent core but shear locally typically at low angles tca (5 - 10 degrees tca). ????? locally brecciated - dark clasts, sub-angular (chlorite schist) --> for the most part SCH-m fragments up to (3 x 2 cm) with contorted / deformed quartz sweats / bands - discontinuous. Local 5 - 7% fine (1-3 mm) interstitial off white calcite +/- pyrite and as low angle fracture fill (0 - 5 degrees tca). (30.57 - 30.76 m) FLT Gouge - Rust orange - cream fault gouge oxidized. 90% clay (oxidized) gouge + 10% fien schist + quartz crush. Colorful spectrum of gouge: from upper end to lower end of this interval cream - beige color --> orange rust --> deep rust brown --> orange - rust + quartz (grey - white) crush.	carb	Mod	lim	Mod	Carbonate - moderate to strong; limonite - fair to extreme.		EPy		0.1					
LS16-72	30.76	31.18	QV		White quartz vein at FW of gouge. White, massive - crackle fracture at contact zones. Weak to moderate limonite +/- black MnO2 stain. Very rare minute specs of pyrite. 5% WRI - patches in quartz - very altered; no sulphides. Contacts crack fractured and broken. (31.18 - 31.38 m) FLT - 60% altered sericite - clay - quartz SCH chips and crush; and 40% cream (light rust) - beige gouge. No sulphide noted. (31.38 - 31.53 m) Pale silica flooded quartz - sericite (talc / chlorite) SCH hydrothermally altered. Pale goldy white mica (sericite / talc / chlorite) with deformed bands (average 0.5 cm thick) of light grey quartz sweats; some local rare rusty pits associated with quartz - limonite stained. Very rare euhedral pyrite found in fracture fill grey quartz sweats. Foliation (S2) wavy deformed at 0 - 5% tca. Upper contact sheared at 35 degrees tca.	lim	Wk					APy		0.1					
LS16-72	31.18	31.53	SCH-i	SCH-yel	Basalt Dyke - black non foliated very fine grained - aphanitic, homogeneous, moderately magnetic basalt. Local fracture surfaces have deep rust brown stain - limonite. No sulphide noted. Contacts broken.	lim	Wk			Limonite trace to fair.		EPy		0.1					
LS16-72	31.53	32.26	BAS			lim	Mod			Limonite - fair.									
LS16-72	32.26	33.7	SCH-i	SCH-yel	(32.26 - 33.53 m) Pale brittly deformed talc - sericite quartz SCH hydrothermally altered. Goldy colored coarse grained talc (sericite) and crackle - fractured light grey quartz - Intense brittle deformation of quartz +/- local shear and strongly deformed talc - very greasy. 60% grey quartz + 40% shiny very greasy talc. Local irregular chaotic fractures typically incised and filled with limonite / talc. (33.53 - 33.70 m) QV / SCH. Quartz vein with sericite - chlorite SCH. Broken white - milky quartz vein at top of interval - interleaved with sericite (talc) - chlorite coarse grained SCH at bottom half of interval. - Maybe in part foliaform; lakred intruded by a later phase.	lim	Mod			Limonite - fair to weak		EPy		0.1	Gn	0.1			
LS16-72	33.7	36.38	SCH-m		Sheared partly broken chlorite - quartz SCH deformed. Greenish - grey (chlorite) and off white to light grey (quartz), partly broken and locally sheared interval. Chloritic ductilely deformed; lighter quartz sweats are often discontinuous as deformed lenses / losenges. Some weak local rust +/- rare pyrite (euhedral, cubic) sometimes associated with them.	lim	Mod			Limonite - fair		EPy		0.1					
LS16-72	36.38	36.87	QV		QV - milky white; fractured with limonite stain fracture fill. Chaotic fractures - numerous fracture fill minerals include: white sericite; rust limonite; yellowish calcite; dark MnO2; euhedral pyrite --> limonite (fine grained associated with yellowish calcite).	carb	Tr	lim	Wk			EPy		0.1					
LS16-72	36.87	37.68	SCH-f	SCH-yel	Pale yellowish sheared quartz - sericite - chlorite SCH hydrothermally altered. Pale yellowish sheared, deformed quartz - sericite - chlorite SCH. Streaky texture along shear direction 45 degree tca. Weak pit - limonite texture along foliation. Very rare pyrite.	lim	Mod					APy		0.1					
LS16-72	37.68	37.92	QV Zone		Quartz veinlets + quartz - chlorite - sericite SCH. Branching milky white quartz veinlets cross cutting milky white quartz sweat in SCH-i (quartz - chlorite SCH). Quartz sweat at 50 degrees tca and 2.5 cm thick; x-cutting quartz veinlet - dislocated by small shear at 40 degrees tca. Both have creamy - off white to rust yellowish patches up to 3 cm x 0.5 cm - irregular and associated with minute cubic pyrite --> limonite + rust.	carb	Wk	lim	Tr			EPy		0.1		20			
LS16-72	37.92	38.6	SCH-f	SCH-yel	(37.92 - 38.30 m) Pale - yellowish deformed quartz - sericite - chlorite SCH hydrothermally altered. Very similar to (36.87 - 37.65 m) - small interval generally at low angle tca with a drag fold at the lower contact (at 90 degrees tca). Darker (greenish grey) chlorite as discontinuous deformed wisps. Light grey quartz sweats / compositional deformed layers ~ 70% of rock type. Weak to moderate rust along irregular fractures - rare euhedral pyrite --> limonite. (38.30 - 38.60 m) FLT - Broken sericite (talc) quartz SCH with crackle white - milky quartz vein - upper half of interval with light orange rust clay gouge with crush in lower half of interval. Lower contact shear at 75 degrees tca. Quartz pieces in upper half - trace pyrite --> limonite and strong limonite fracture fill.	lim	Str			Limonite - weak to strong		EPy		0.1					
LS16-72	38.6	39.7	SCH-i		Grey planar foliated sericite (chlorite) SCH. Grey, fine grained planar - foliated (@ 40 degrees tca), sericite (chlorite) SCH, no compositional banding. 2 very small x-cutting discontinuous quartz veinlets - pitted ad with rust; 3 mm to 1 cm wide - euhedral rusty vugs in the larger one; also associated with minor cream - colored calcite. Otherwise interval very monotonous with very fine grained specs of disseminated anhedral pyrite (trace).	carb	Tr	lim	Mod			EPy		0.1	APy	0.1	10		
LS16-72	39.7	39.98	QV		Very milky white with weak fracture; rare small (1-2 mm) vugs with light rust; 2 blebs of galena in massive white quartz.	lim	Tr					Gn		0.1					
LS16-72	39.98	41.72	SCH-i		(39.98 - 40.14 m) Grey planar foliated sericite (chlorite) SCH. Very similar to (38.60 - 39.70 m) - short interval between QV and QV/ FLT. Foliation planar at 40 degrees tca. Very rare trace anhedral pyrite grains, very fine grained. (40.14 - 40.45 m) - QV / FLT - upper third: cross cutting quartz vein with an incomplete broken lower contact. The remainder of the interval is broken quartz - rich core and greasy talc - sericite clay gouge - oxidized. (40.45 - 41.72 m) FLT - Broken core + gouge. Intermittent rusty shearing with rust / oxidized and clay - sericite - talc gouge. Broken core in between is sheared quartz rich sericite - chlorite SCH pieces with fine grained, disseminated, euhedral - anhedral pyrite - only trace amounts. 60% broken core (sheared at 45 degrees tca). 40% gouge.	lim	Mod					APy		0.1	EPy	0.1			
LS16-72	41.72	50.29	SCH-i	SCH-tec	(41.72 - 48.83 m) Tectonized SCH-lam; non-uniform (?). Dark grey, intensely brittle and ductile deformation. Crackled - fractured - brecciated off white / grey quartz with strong ductile deformed discontinuous quartz rich compositional bands / lenses / losenges with interstitial ductile deformed chlorite and black chlorite rimming some of the quartz. Trace amounts of very fine grains of pyrite - anhedral and euhedral. Some highlights: (45.82 - 45.96 m) small white QV x-cutting in above described sequence. - last two sample intervals (47.48 m and 48 - 48.83 m) have 2-5% long - straight (at 5 degrees tca) white calcite tension gash fills; late phase; increased crackle - fractures, oxidized and pyrite with a small x-cutting QV at 48.46 m. Lower contact broken; ~ steep tca. (48.85 - 49.25 m) FLT oxidized. Dark grey to rusty brown broken tectonized SCH-lam (non-uni) + minor crush. Trace pyrite disseminated as fine grained noted. (49.25 - 50.29 m) Deformed poor SCH-lam; non uniform. Quartz - chlorite - sericite SCH. Similar to (41.72 - 48.83 m) but not as tectonized - more deformed - ductile compositional banding (light grey 0.5 cm thick quartz + dark green - grey discontinuous, sometimes 'wispy' chlorite - weak "tiger texture"). Quartz ~ 60%; chlorite - sericite ~ 40%. Trace amounts of disseminated, euhedral and anhedral pyrite - pervasive. E.O.H.	carb	Tr	lim	Tr	Limonite trace to strong locally.		EPy		0.1	APy		0.1	Epy - locally up to 1%.	5
LS16-73	2.3	3.55	OVB		Rusty, oxidized, rubbled / milled core. Comprises 60% yellow - rusty quartz - sericite SCH (SCH-i) + 40% white - glassy grey (folaform) rubbled / milled quartz. No sulphides noted.	lim	Str										30		
LS16-73	3.55	10.95	SCH-i	SCH-yel	sericite / muscovite quartz schist typically with weakly - moderately crackled frolaform quartz 'sweats'. Oxidization is pervasive through interval giving a goldy color to the medium grained sericite. Oxidization / limonite move intensive in color along fractures. Foliation generally at low angles tca (0 - 30 degrees tca) up to 8.00 m then steepening 70 - 90 degrees tca; and generally foliation is 90 degrees tca prior to the lower contact. A drag fold is at the lower contact which is broken. Pyrite is generally oxidized and not present; leached out as small (fine to medium grained) square vugs with intense black MnO2 infill / stain; this is most prevalent from 7.00 - 8.00 m. Highlights: (7.0 - 8.0 m) A local patch (20 x 5 cm) has an very extension oxidation halo and a dense pitting of square vugs with black MnO2 infill - 15% in this area. Residual pyrite can be seen in some pits (up to 3%). (10.0 - 10.80 m) for the most part foliation irregularly layered with quartz sweats - pervasively oxidized with 5% pitting (0.5 - 1 mm; some euhedral cube shaped vugs). Layering, sweats, foliation - cuarped???? ~ 90 degrees tca. (10.80 - 10.95 m) QV - snow white massive quartz with weak fractures. Fracture surface coated in rust - limonite. No sulphide noted. Rare rust specs; possible pyrite --> limonite.	lim	Str					APy		0.1		Apy - locally up to 1%.	20		
LS16-73	10.95	16.12	SCH-i		(10.95 - 14.22 m) Strongly oxidized, brittle deformed quartz - sericite SCH. Very similar to (3.55 - 10.80 m) but more discontinuous rusty quartz sweats / lenses / losenges chaotically oriented - possible re-healed structure - brittle ductile deformation. Local trains of rusted out pits sometimes as 'trains' following foliation. Highlights: (13.12 - 13.30 m) Small fault - orange rust fault gouge; clay - sand. (14.22 - 16.12 m) FLT - strongly oxidized fault. Rusty oxidized broken core comprising quartz - sericite SCH with rusty pits (leached out pyrite) up to 5% locally - 50% of interval; + rusty orange gouge comprising fines, sand, clay, mica and fine crush (lesser quartz).	lim	Str					APy		1	EPy	1	10		
LS16-73	16.12	24.88	SCH-i		(16.12 - 24.60 m) Oxidized; brittle - ductile deformed quartz - sericite SCH. Similar to (10.95 - 14.22 m) and (3.55 - 10.80 m), rusty oxidized interval of brittle - ductile deformed quartz - sericite schist with 15 - 30% grey quartz sweats as lenses / losenges often discontinuous. This interval is not as disturbed as (10.95 - 14.22 m). Local pitting up to 7% and intense MnO2 / limonite stain on local surfaces. Generally the foliation is at steep angles tca. Highlight: (18.89 - 19.15 m) Moderately lighter - pale yellow - beige white in the pervasively rusty interval --> moderate hydrothermal alteration - moderate silica flooding. (24.60 - 24.88 m) FLT - strongly oxidized fault. Intense rusty - orange fault gouge (50%) + white quartz (20%) + oxidized rusty decomposed quartz - sericite SCH (30%). No visible sulphides.	lim	Str					EPy		0.1			25		
LS16-73	24.88	30.54	SCH-i	SCH-yel	Intermittently oxidized sericite - quartz SCH. Similar to (16.12 - 24.60 m) but more uniform, increase in sericite content; generally moderate foliation angles tca; and intermittent rust / oxidized on selective folae giving a back and forth of orange rust and light grey (unoxidized) schist. Local pitting due to pyrite --> limonite and limonite being leached out runs ~ trace - 5% locally. Actual pyrite seen is trace - 3%. Where seen pyrite is more anhedral; broken down. Highlights: (24.60 - 24.88 m) - 70% foliaform white - grey quartz at 90 degrees tca with intense oxidation (rusty) + black MnO2 coated sericite SCH in between. (27.0 - 28.0 m) - Leached and decomposed; some shear fabric at 40 degrees tca +/- intensely rusty shear gouge; possibly ore hydrothermally altered --> coarser grained shiny (goldy colored) sericite / talc. (30.32 - 30.54 m) Oxidized fault. Intense rusty orange brown decomposed and sheared with gouge (soily - clay) + 15% brittly - fractured quartz veinlet - within decomposed material. No sulphides noted - too oxidized.	lim	Str					APy		1		15			

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
LS16-73	30.54	34.31	SCH-i	SCH-lam-nu	contact is broken but appears to be ~ 40 degrees tca and drag folded into the above fault. This unit shows clear compositional banding of uneven / non uniform light grey wavy - deformed bans (2 - 12 mm thick) alternating with dark greenish grey finer - wispy chlorite (sericite) folae/ laminae (1-5 mm thick). *noted increase from previous schist intervals of fine grained, disseminated, euhebral cubic pyrite along both composition; quartz and mica folae. Compositional banding obscured / lost for part of this interval. Details of sample intervals: (30.54 - 31.78 m) Compositional banding as described as above - generally wavy at 30 degrees tca with trace - 7% disseminated, euhebral pyrite locally. Upper 40 cm of this sub-interval is oxidized and rusty; the rest is a moderate grey. Texture grading to more mottled - losing compositional banding texture. (31.78 - 32.69 m) Mottled with increased crenulated chlorite (sericite); weak developed chlorite spotty texture; reduction of quartz and pyrite; more mafic. Includes a 3 mm wide x-cutting quartz stringer at 40 degrees tca. (32.69 - 33.00 m) Mottled green - grey chlorite rich sub-interval - includes unusual black - pyritic irregular fracture at 0 - 3 degrees tca 3 mm wide; black material appearing to be MnO2. (33.0 - 33.90 m) Weak intermittent compositional banding but mostly mottled and chlorite rich. Increased shearing + limonite / oxidizatin towards lower														
LS16-73	34.31	37.52	SCH-i	SCH-yel	(34.31 - 36.54 m) - Variably colored / altered sericite quartz SCH. Mixed interval of intermittent oxidized rusty - orange sericite (quartz) SCH with isolated lenses of quartz (3 - 5 cm wide) sections; pale greenish light grey hydrothermally altered - crenulated sericite (chlorite - quartz) SCH. Textures are complex and uneven; mottled, streaky, deformed folae and local weak fracturing. Most fracture fill are limonite intense +/- black MnO2 +/- pyrite. Pyrite both anhedral and euhebral found throughout interval - unevenly distributed. Last 35 cm darker in color and with more brittle deformation. Lower contact with fault very rusty at low (0 - 5 degrees) tca. (36.54 - 37.52 m) FLT - strongly oxidized fault - low angle TCA. Rusty, as fractues with intense limonite / MnO4 +/- brecciated quartz and schist at 0 - 5 degrees tca. Some pyrite (euhebral -> limonite) noted in un-oxidized patches. Brecciated fragments are mostly grey quartz; sub angular to sub-rounded (average size ~ 1 x 1 cm). lenses. Intermittent pearly luster (chl -> ser; alteration); unit becoming more mafic. Euhebral pyrite as fine grained disseminated. Highlights: (37.77 m) 3 mm wide cross cutting quartz - calcite (creamy - yellowish) stringer with some euhebral pyrite along selvage. 70 - 90 degrees tca. (38.48 - 38.80 m) Large white - light grey quartz lens; 7 cm at low angle tca. Trace euhebral shiny medium grained pyrite in quartz. 7% very pale calcite fracture fill and patches along quartz margin. (40.0 - 40.6 m) Intense limonite rust + MnO2 in fractures at low angle tca; brittle deformation along fractures - particularly the quartz. (43.40 - 49.30 m) FLT - intermittent faulting + broken core. Extended interval of mixed broken core, fine crush gouge and short sub-intervals of more competent but sheared / deformed / and / or brittly fractured sub-intervals. Some details: (43.40 - 43.78) Broken sericite (quartz) SCH with talc rich gouge + oxidation. Pyrite as euhebral, fine grained, cubes in broken SCH; 20% gouge. (43.78 - 45.0) Broken core, oxi, brittly deformed qtz sweat rich ser qtz SCH. (45 - 46) More competent core with weaker oxi, sheared and brittly deformed ser qtz SCH; shear @ 35 degrees tca. Developed S3 crenulation cleavage; weak phacoidal texture. (46 - 47) Relatively less oxi; broken - sheared core; mica rich core with silvery luster ser - chl (qtz) SCH; bit more mafic; eu py dis. (47 - 48) Paled ser (qtz) SCH; broken -	lim	Str			Limonite moderate to strong.		EPy		3	APy		1	Epy 3% to trace.	
LS16-73	37.52	49.3	SCH-i	SCH-yel	(49.30 - 50.35 m) Mottled deformed medium grained sericite (+/- talc) - chlorite - quartz SCH. Mottled texture of local chlorite - rich patches / spots (1 - 10 mm across) poorly developed, ductile, deformed obscured - discontinuous and local compositional banding / tiger textured quartz rich and sericite (chlorite) rich layers. Less quartz in this interval relative to above intervals. Trace anhedral, disseminated very fine grained pyrite noted. (50.35 - 51.92 m) FLT BX - Fault with breccia. Grey to cream colored; semi consolidated; matrix supported fault breccia. Matrix (65%) cream color clay - sericite talc (fine grained) and fine rusty crush. Clasts (35%); all sub rounded to sub angular; brittly fracture; grey sericite - quartz SCH (+/- trace pyrite) ad off white quartz. Upper contact at 35 degrees tca. Lower contact broken.	carb	Tr	lim	Mod	Carbonate - local; Limonite - trace to moderate to strong.		EPy		0.1		Epy locally 1%.	20		
LS16-73	49.3	51.92	SCH-i	SCH-yel	(49.30 - 50.35 m) Mottled deformed medium grained sericite (+/- talc) - chlorite - quartz SCH. Mottled texture of local chlorite - rich patches / spots (1 - 10 mm across) poorly developed, ductile, deformed obscured - discontinuous and local compositional banding / tiger textured quartz rich and sericite (chlorite) rich layers. Less quartz in this interval relative to above intervals. Trace anhedral, disseminated very fine grained pyrite noted. (50.35 - 51.92 m) FLT BX - Fault with breccia. Grey to cream colored; semi consolidated; matrix supported fault breccia. Matrix (65%) cream color clay - sericite talc (fine grained) and fine rusty crush. Clasts (35%); all sub rounded to sub angular; brittly fracture; grey sericite - quartz SCH (+/- trace pyrite) ad off white quartz. Upper contact at 35 degrees tca. Lower contact broken.	lim	Wk					EPy		0.1		10			
LS16-73	51.92	53.41	BAS		Black BASALT DYKE - non foliated. Black, non foliated, equigranular very fine grained - aphanitic, moderately magnetic (non-magnetic at contacts) in central part of interval - basalt. Weakly calcareous along some fractures. Local dark rusty brown on some fractures. No visible sulphides; phenocrysts or veining / strong within this unit. Upper contact broken with gouge. Lower contact broken - appears steep tca. rust; angular and elongated to shear fabric ~ 90 degrees tca; clasts are milky quartz + foliaform grey quartz material (80%) and quartz rich SCH (20%). Matrix grey fine crush is the main component (+/- rust) and less, local cream color (+/- rust) clay - sericite (fine grained) gouge. Trace euhebral pyrite -> limonite (fine grained) noted in some of the grey angular clasts. Upper contact broken - appears steep. Lower contact broken appears steep. (53.85 - 55.04 m) Chlorite - sericite - quartz SCH - weak phacoidal texture. Dark (greenish) grey medium grained chlorite with lesser sericite and quartz. More on the mafic end of an intermediate schist. Quartz appears as small 5 x 1 mm phacoidal lenses wrapped in chlorite (sericite) medium grained mica. No compositional layering. Pyrite is rare and very fine grained - unevenly disseminated through interval. Fractures rusty. Upper contact broken appears steep. Lower contact - shear - gouge ~ 40 degrees tca. (55.04 - 56.83 m) FLT - mixed interval. Mixed; upper part (55.04 - 55.30 m) is white - cream - rust clay - sericite gouge with grey quartz crush and marked at bottom by brittly fractured leached quartz at 80 degrees tca; remainder of interval is mixed brittly deformed, cracked and broken, partly hydrothermally altered, partly oxidized Sericite - quartz SCH (SCH-i). Pyrite is noted but for the most part oxidized and leached out. Lower contact sheared at 40 degrees tca. Pale silica flooded quartz - rich sericite SCH + 4 x-cutting quartz veinlets. Very pale off white - pale beige - pale rusty grey - "washed out" looking planar foliated (obscured by silica flooding) quartz rich sericite SCH. Severely hydrothermally altered section - possible SCH-lam but too altered to confirm. Trace shiny pyrite (very fine grained) euhebral along folae planes. Foliation is low angle tca 0 - 30 degrees tca. Lower contact at 35 degrees - sharp and formed by a cross cutting quartz veinlet.	carb	Tr	lim	Wk										
LS16-73	53.41	56.83	SCH-i	SCH-yel	QV - Broken with very irregular stained fracture surfaces intense oxide stain includes orange to deep brown rust (limonite) + lesser black color MnO2. Very fine grained pyrite - rare possibly due to strong oxidation. light grey, off white and pale light rust on a foliated (wavy deformed) laminae - weakly developed compositional banding (SCH-lam?) -> texture very much masked by silica flooding (SF). Pyrite is generally very sparse and very fine grained (trace amounts) except between 59.4 and 59.64 m where quartz rich fold is cracked and re-healed with up to 1% subhedral fine grained pyrite. (59.92 - 60.78 m) Grey chlorite (sericite) quartz calcite alteration + pyrite. Texturally very different than preceding interval. No defined foliation. Cream - colored calcite specs (interstitial?) - 10% in a fine grained chlorite (sericite) quartz ground mass - overprinting texture. *Perhaps an altered porphyritic (plagioclase -> calcite) intermediate volcanic? Notable increase in pyrite from last interval: 2% sub euhebral to euhebral grains. Discontinuous quartz sweats (lenses) 3 - 5 cm wide - 15% of interval. The off white - light grey quartz sweats often have cream colored calcite subhedral clusters along their margins. At 60.10 m creamy clay + calcite shear - gouge; 7 cm wide. Upper contact is broken. Lower contact is conformable with SCH-i below at 35 degrees tca. (60.78 - 62.11 m) Pale silica flooded quartz rich sericite (chlorite) SCH with pyrite (SCH-lam??). Similar to (58.8 - 59.92 m); pale rust - beige light grey silica flooded foliated - original foliation texture faded and washed somewhat compositional banding and more euhebral,	lim	Mod			Limonite - moderate to strong		EPy		0.1	APy		0.1		
LS16-73	56.83	58.6	SCH-i	SCH-yel	QV - Broken with very irregular stained fracture surfaces intense oxide stain includes orange to deep brown rust (limonite) + lesser black color MnO2. Very fine grained pyrite - rare possibly due to strong oxidation. light grey, off white and pale light rust on a foliated (wavy deformed) laminae - weakly developed compositional banding (SCH-lam?) -> texture very much masked by silica flooding (SF). Pyrite is generally very sparse and very fine grained (trace amounts) except between 59.4 and 59.64 m where quartz rich fold is cracked and re-healed with up to 1% subhedral fine grained pyrite. (59.92 - 60.78 m) Grey chlorite (sericite) quartz calcite alteration + pyrite. Texturally very different than preceding interval. No defined foliation. Cream - colored calcite specs (interstitial?) - 10% in a fine grained chlorite (sericite) quartz ground mass - overprinting texture. *Perhaps an altered porphyritic (plagioclase -> calcite) intermediate volcanic? Notable increase in pyrite from last interval: 2% sub euhebral to euhebral grains. Discontinuous quartz sweats (lenses) 3 - 5 cm wide - 15% of interval. The off white - light grey quartz sweats often have cream colored calcite subhedral clusters along their margins. At 60.10 m creamy clay + calcite shear - gouge; 7 cm wide. Upper contact is broken. Lower contact is conformable with SCH-i below at 35 degrees tca. (60.78 - 62.11 m) Pale silica flooded quartz rich sericite (chlorite) SCH with pyrite (SCH-lam??). Similar to (58.8 - 59.92 m); pale rust - beige light grey silica flooded foliated - original foliation texture faded and washed somewhat compositional banding and more euhebral,	lim	Mod					EPy		0.1			20		
LS16-73	58.6	58.8	QV		QV - Broken with very irregular stained fracture surfaces intense oxide stain includes orange to deep brown rust (limonite) + lesser black color MnO2. Very fine grained pyrite - rare possibly due to strong oxidation. light grey, off white and pale light rust on a foliated (wavy deformed) laminae - weakly developed compositional banding (SCH-lam?) -> texture very much masked by silica flooding (SF). Pyrite is generally very sparse and very fine grained (trace amounts) except between 59.4 and 59.64 m where quartz rich fold is cracked and re-healed with up to 1% subhedral fine grained pyrite. (59.92 - 60.78 m) Grey chlorite (sericite) quartz calcite alteration + pyrite. Texturally very different than preceding interval. No defined foliation. Cream - colored calcite specs (interstitial?) - 10% in a fine grained chlorite (sericite) quartz ground mass - overprinting texture. *Perhaps an altered porphyritic (plagioclase -> calcite) intermediate volcanic? Notable increase in pyrite from last interval: 2% sub euhebral to euhebral grains. Discontinuous quartz sweats (lenses) 3 - 5 cm wide - 15% of interval. The off white - light grey quartz sweats often have cream colored calcite subhedral clusters along their margins. At 60.10 m creamy clay + calcite shear - gouge; 7 cm wide. Upper contact is broken. Lower contact is conformable with SCH-i below at 35 degrees tca. (60.78 - 62.11 m) Pale silica flooded quartz rich sericite (chlorite) SCH with pyrite (SCH-lam??). Similar to (58.8 - 59.92 m); pale rust - beige light grey silica flooded foliated - original foliation texture faded and washed somewhat compositional banding and more euhebral,	lim	Str					APy		0.1					
LS16-73	58.8	62.11	SCH-i	SCH-yel	light grey, off white and pale light rust on a foliated (wavy deformed) laminae - weakly developed compositional banding (SCH-lam?) -> texture very much masked by silica flooding (SF). Pyrite is generally very sparse and very fine grained (trace amounts) except between 59.4 and 59.64 m where quartz rich fold is cracked and re-healed with up to 1% subhedral fine grained pyrite. (59.92 - 60.78 m) Grey chlorite (sericite) quartz calcite alteration + pyrite. Texturally very different than preceding interval. No defined foliation. Cream - colored calcite specs (interstitial?) - 10% in a fine grained chlorite (sericite) quartz ground mass - overprinting texture. *Perhaps an altered porphyritic (plagioclase -> calcite) intermediate volcanic? Notable increase in pyrite from last interval: 2% sub euhebral to euhebral grains. Discontinuous quartz sweats (lenses) 3 - 5 cm wide - 15% of interval. The off white - light grey quartz sweats often have cream colored calcite subhedral clusters along their margins. At 60.10 m creamy clay + calcite shear - gouge; 7 cm wide. Upper contact is broken. Lower contact is conformable with SCH-i below at 35 degrees tca. (60.78 - 62.11 m) Pale silica flooded quartz rich sericite (chlorite) SCH with pyrite (SCH-lam??). Similar to (58.8 - 59.92 m); pale rust - beige light grey silica flooded foliated - original foliation texture faded and washed somewhat compositional banding and more euhebral,	carb	Tr	lim	Wk	Carbonate - trace to locally strong; Limonite - trace to fair to moderate.		EPy		2	APy		0.1	20	
LS16-73	62.11	69.99	SCH-m		(62.11 - 69.04 m) Dark grey chlorite (sericite) quartz SCH; This unit is on the mafic side of the intermediated schists possible SCH-m. Chlorite rich (+/- sericite) dark shade of greenish - grey; well foliated moderately deformed with trace euhebral cubic fine grained pyrite throughout. Highlights: 64.20 m - orange rust clay gouge slip plane - 5 cm wide at 45 degrees tca. (65.0 - 65.30 m) - Pale sub - interval (light grey rust) silica flooded with quartz compositional wavy - deformed banding (8 mm thick) + noted pyrite along laminae at 40 degrees tca. Pyrite is fine grained, disseminated. (66.70 - 67.0 m) Dark chlorite - quartz SCH has 2 foliaform grey quartz (calcite) veinlets. 67.96 m large white fractured quartz sweat. (69.04 - 69.99 m) FLT - Rusty - orange, pitted SCH-m / i - interse rusty gouge along irregular fracture at 0 - 3 degrees tca. SCH-i; but towards the mafic end as it is rich in chlorite. This interval seems to have local compositional banding obscured by the dark chlorite or by speckled cream colored subhedral medium grained calcite (feldspar -> calcite) perhaps a crystal - tuff or porphyritic intermediate volcanic at one time. Possible SCH-lam; higher pyrite content along folae. Highlights and details of this interval: (69.99 - 72) Masked compositional banding by chlorite + calcite alteration as cream - colored medium grained subhedral specs along folae along edges of quartz rich layers. No developed S3. Up to 5% pyrite locally as euhebral cluster of cubic (fine grained) forms. (73 - 74.25) 15 small (average 1 cm wide) scattered foliaform white massive quartz sweats/ lenses. some have local cream colored calcite associated with them. Pyrite as fine grained, euhebral, striated cubes pervasive through interval. (74.25 - 74.45) Unusual milky white quartz sweat - appear foliaform. (74.45 - 75.8) Lithology becoming more pearly --> SCH-m; more chlorite (sericite) mica content and coarser texture. Also talc. (75.8 - 76) Sub-interval includes 2 foliaform sweats and 1 cross cutting calcite - quartz - galena stringer. (76 - 77) This sub-interval is very mafic -> SCH-m; mica is very coarse grained; increased talc. Maybe ultramafic. (78) foliaform quartz veinlet. Lower contact - increasing cream - white calcite between folae (7-10%). Lower contact at 78.40 marked	carb	Str	lim	Mod	Carbonate - moderate to strong; Limonite - trace to moderate to strong.		EPy		0.1			Epy trace up to 1%.		
LS16-73	69.99	78.89	SCH-i		SCH-i; but towards the mafic end as it is rich in chlorite. This interval seems to have local compositional banding obscured by the dark chlorite or by speckled cream colored subhedral medium grained calcite (feldspar -> calcite) perhaps a crystal - tuff or porphyritic intermediate volcanic at one time. Possible SCH-lam; higher pyrite content along folae. Highlights and details of this interval: (69.99 - 72) Masked compositional banding by chlorite + calcite alteration as cream - colored medium grained subhedral specs along folae along edges of quartz rich layers. No developed S3. Up to 5% pyrite locally as euhebral cluster of cubic (fine grained) forms. (73 - 74.25) 15 small (average 1 cm wide) scattered foliaform white massive quartz sweats/ lenses. some have local cream colored calcite associated with them. Pyrite as fine grained, euhebral, striated cubes pervasive through interval. (74.25 - 74.45) Unusual milky white quartz sweat - appear foliaform. (74.45 - 75.8) Lithology becoming more pearly --> SCH-m; more chlorite (sericite) mica content and coarser texture. Also talc. (75.8 - 76) Sub-interval includes 2 foliaform sweats and 1 cross cutting calcite - quartz - galena stringer. (76 - 77) This sub-interval is very mafic -> SCH-m; mica is very coarse grained; increased talc. Maybe ultramafic. (78) foliaform quartz veinlet. Lower contact - increasing cream - white calcite between folae (7-10%). Lower contact at 78.40 marked	carb	Mod	lim	Tr	Limonite - trace to weak with local strong.		EPy		3			Epy trace up to 3%.	10	
LS16-73	78.89	80.54	SCH-f		Pale silica flooded quartz - rich sericite SCH - planar foliated. Pale beige, beige - light grey and off white with greyish blemishes along planar folae - uniform. Folae consistent at 55 - 60 degrees tca. Creamy - calcite (associated with very fine grained pyrite / limonite) filled tension gashes near bottom of interval - x-cutting - stringers. Greyish - blueish blemishes noted are in quartz sweats - some are obliquely cutting foliation and contain fine specs of galena - This is sparse but noted throughout this pale interval in this narrow (0.5 cm) sweats along with trace fine grained, disseminated pyrite along folae. Conformable lower contact at 40 degrees tca.	carb	Wk	lim	Wk			EPy		0.1	Gn		0.1	10	
LS16-73	80.54	86.07	SCH-i		Chlorite (sericite) quartz SCH + pyrite. Greenish grey, weak intermittent compositional layered (chlorite / sericite > quartz), deformed, locally mottled and sheared - Generally a medium to coarse grained chlorite - sericite quartz SCH with 1 - 3% pyrite disseminated unevenly. Increasing deformed mica (warped) towards the lower contact - conformable at 70 degrees tca. Highlights: (84.50 - 84.75) Low angle cream colored sericite - brucite? gouge shear; 0.5 cm wide at 5 - 30 degrees tca. (85.70 - 86.07 m) 20% white - cream calcite - quartz interfolae material and increase in fine grained, euhebral, disseminated pyrite along them. Up to 3% pyrite. severely hydrothermally altered - silica flooded (SF); qtz rich ser SCH with noted py - locally as cluster trains along folae; gal noted in crackled qtz sweats; some fuchsite along folae. Details: (86.07-87) Pale UC at 70 degrees tca with complex white qtz sweats - wavy and irregular in upper half; middle section is dark green - grey chl bands + interleaved with white magnesite; bottom third of sub-interval has increase of white qtz sweats. Noted increase in py in dark chl bands (3 - 5%). (87-88) Pale wavy folae with numerous white qtz sweats average 1 cm thick. One sweat at 87.30 is a lens (4 x 10 cm) with a grey - white fabric perpendicular to margins. Py 'trains' as fg, eu, shiny cubes along folae common. One patch (irregular 14 x 6 m) of qtz contains mg eu pyrite, cubic with possible gal. There is 5% white - cream cal associated with sweat. (88-88.83) patchy qtz sweats and py - ser along deformed distinct folae - severe silica flooding. (88.83-89.26) QV - crackle fracture with gal. (90-90.30) 50% of this interval are foliaform qtz - some are refractured sub-parallel to the margin with 2nd phase introduction of gal, py, lim along these fractures. Bluish - grey 'blemishes' in qtz noted suggest more galena. (90.30-91.95) Severely silica flooded - very qtz rich; mafics washed out. Local fuchsite (tr) in this interval. Very fg, shiny, disseminated, eu, py left behind. Pale light grey to white bleached color. Very weak yellow-rust stain on some	carb	Wk	lim	Tr			EPy		1					
LS16-73	86.07	93.46	SCH-i		Chlorite (sericite) quartz SCH + pyrite. Greenish grey, weak intermittent compositional layered (chlorite / sericite > quartz), deformed, locally mottled and sheared - Generally a medium to coarse grained chlorite - sericite quartz SCH with 1 - 3% pyrite disseminated unevenly. Increasing deformed mica (warped) towards the lower contact - conformable at 70 degrees tca. Highlights: (84.50 - 84.75) Low angle cream colored sericite - brucite? gouge shear; 0.5 cm wide at 5 - 30 degrees tca. (85.70 - 86.07 m) 20% white - cream calcite - quartz interfolae material and increase in fine grained, euhebral, disseminated pyrite along them. Up to 3% pyrite. severely hydrothermally altered - silica flooded (SF); qtz rich ser SCH with noted py - locally as cluster trains along folae; gal noted in crackled qtz sweats; some fuchsite along folae. Details: (86.07-87) Pale UC at 70 degrees tca with complex white qtz sweats - wavy and irregular in upper half; middle section is dark green - grey chl bands + interleaved with white magnesite; bottom third of sub-interval has increase of white qtz sweats. Noted increase in py in dark chl bands (3 - 5%). (87-88) Pale wavy folae with numerous white qtz sweats average 1 cm thick. One sweat at 87.30 is a lens (4 x 10 cm) with a grey - white fabric perpendicular to margins. Py 'trains' as fg, eu, shiny cubes along folae common. One patch (irregular 14 x 6 m) of qtz contains mg eu pyrite, cubic with possible gal. There is 5% white - cream cal associated with sweat. (88-88.83) patchy qtz sweats and py - ser along deformed distinct folae - severe silica flooding. (88.83-89.26) QV - crackle fracture with gal. (90-90.30) 50% of this interval are foliaform qtz - some are refractured sub-parallel to the margin with 2nd phase introduction of gal, py, lim along these fractures. Bluish - grey 'blemishes' in qtz noted suggest more galena. (90.30-91.95) Severely silica flooded - very qtz rich; mafics washed out. Local fuchsite (tr) in this interval. Very fg, shiny, disseminated, eu, py left behind. Pale light grey to white bleached color. Very weak yellow-rust stain on some	carb	Wk	lim	Tr	Limonite trace to fair.		EPy		2			Epy trace to 1% and 2%.	20	

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-73	93.46	95.35	SCH-f		Pale bleached quartz - sericite SCH +/- trace galena (altered?? SCH-lam). Severely hydrothermally altered, planar foliated, locally sheared with trace galena - bluish - grey blemishes; in a white bleached quartz - sericite SCH. Lower contact at 70 degrees tca; broken.	lim	Tr					EPy		1 Gn	0.1		10
LS16-73	95.35	95.64	SCH-i		Was originally logged as SCH-um; Pale green LISTWANITE, Very soft, coarse grained deformed talc (sericite), greasy lithology with 2% disseminated pyrite - pervasive. White brucite (?) - talc slip plane at lower contact ~ 60 degrees tca. galena. At least 2 x-cutting veinlets. Significant galena - rich, 1 mm thick lamina at 35 degrees tca; VMS / SEDEX style mineralization at 98.28 m. Very close to Listwanite contact (LC). Core was moved to somewhere warm and log continues: Pale bleached qtz - ser SCH - x-cutting and foliaform tr gal. Pale beige colored to off white quartz rich with silver medium grained sericite and generally 1% disseminated shiny very fine grained euhedral pyrite. Foliation is planar and for the most part moderate tca --> ~ 40 degrees tca. Although very quartz rich; the interval has uneven local fine (1 - 3 mm thick compositional folae / lamina). Galena is initially noted as discreet individual fine grains often in sweats and veinlets (some x-cutting) in most of the interval; and becomes more disseminated (fine grained) along folae or fine (1 - 2 mm) thick quartz laminae. Chalcopyrite is rare and noted as trace individual grains in grey - white quartz sweats. Details: (95.64 - 96.49) Contains a foliaform quartz sweat, 2 - 3 cm thick intersecting a cross cutting quartz veinlet 1 cm thick and with 1/2 dozen 1 cm (average thick) wide foliaform quartz sweats. (96.49 - 96.69) Contains a low angle tca milky qtz veinlet with galena. (96.69 - 97.84) as in general description; local dis fg eu py along folae - siliceous; qtz rich fine folae (< 1 mm); some local bluish - grey blemishes (gal?); syngenetic? (97.84 - 98.36) Upper end of sub-interval	list	Tr	** Doesn't mention - fuchsite or carbonate alteration.			EPy		2				
LS16-73	95.64	98.36	SCH-f	SCH-ssb		lim	Tr					EPy		1 Gn	0.1 Epy - trace to 1%; Chalcopyrite occurring at (97.84 - 98.84 m)		5
LS16-73	98.36	99.5	SCH-i		*Was originally logged as SCH-um. Pale green LISTWANITE + fuchsite. Pale green coarse grained talc (sericite) mica with interstitial white brucite? ad bright green fuchsite (trace). Core very altered and partially decomposed. Fractured - crackled texture with coarsely defined foliation of 50 degrees tca. 5% quartz sweats / veinlets - lens shaped; 2% euhedral, shiny, cubic pyrite.	list	Tr			*** Doesn't mention carbonate alteration		EPy		2			5
LS16-73	99.5	100.58	SCH-m		*Was originally logged as SCH-um. Dark ULTRAMAFIC rock altered, greasy. Very dark greenish - bluish black lithology with talc / brucite? on fracture surfaces (off white) - greasy. Dark minerals unrecognizable; fine to medium grained, euhedral, shiny pyrite noted pervasively through lithology. Coarse foliation fabric at 0 degrees tca. E.O.H.							EPy		2			5
LS16-74	2.1	3.05	OVB		*NOTE - no carbonate testing was able to be done as too cold. Broken and milled core; fractured deformed SCH-lam material (70%); fine crush + gouge(20%); foliaform (?) white quartz chips. Largest piece of broken core 9 cm. Noted pyrite --> limonite fine grained, euhedral, cubes in broken SCH-lam core.	lim	Wk					EPy		1			
LS16-74	3.05	13.97	SCH-i	SCH-lam	mm) ad very uniform off white sucrosic quartz rich folae / lamina alternating with moderate brown - grey sericite - chlorite folae / lamina. Foliation generally at steep angle tca but locally folded and deformed. Noted fine grained, euhedral pyrite --> limonite cubes along folae planes syngenetic. (3.80 - 4.10 m) FLT - broken, weakly oxidized core - SCH-lam (50%) + beige colored weak rusty fine crush + gouge. Local black specs (< 1 mm) of MnO2 on some fracture surfaces. (4.10 - 7.30 m) Uniform - rhythmic - alternating - deformed SCH-lam. Essentially the same as (3.05 - 3.80 m) ; increased S3 crenulation cleavage plane development 50 - 60 degrees tca; S2 is at 20 - 40 degrees tca - somewhat perpendicular to each other. Rust specs through core sometimes coincident with fine grained, euhedral pyrite --> limonite cubes are noted. Highlight: (4.90 - 5.18) Broken quartz vein; fractured. (7.30 - 7.60 m) FLT - gouge + QV chips. Beige - rust gouge + fine crush (50%) + (20%) white broken angular quartz chips (largest 3 cm; 1/2 cm average. (7.60 - 13.97 m) Uniform - rhythmic - alternating - deformed SCH-lam. Very similar to both (3.05 - 3.80 m) and (4.10 - 7.30 m). Some local S3 development with local limonite stain fractured across compositional laminae / folae. Rust as limonite also noted along laminae and as spots pyrite --> limonite along laminae / folae as well. Limontie and spotted - dendritic pyrolusite (MnO2) Finely foliated chlorite (sericite) quartz SCH. Mottled (greenish) grey of fine to medium grained discontinuous sucrosic quartz - finely intercalated with chlorite - sericite micas. Interval has a fine crenulation texture. No compositional layering as in above intervals. Some micro faults through developed S3 at 40 degrees tca and noted euhedral, fine grained, cubic pyrite --> limonite along micro faults / fracture. This unit is finely foliated and has a conformable lower contact at 70 degrees tca. Highlight: (15.45 - 15.67 m) x-cutting vuggy quartz veinlet - very shallow angle tca.	lim	Wk	Limonite - fair to weak.			EPy		0.1				
LS16-74	13.97	15.87	SCH-i		Feldspar phenocrysts; meta-porphyritic andesite? Unique texture of euhedral - subhedral off white (1 - 8 mm across) phenocrysts with noted wrapping mica texture (very weak) suggesting a parent feldspar porphyry; hypabyssal meta - porphyritic andesite (?). Moderate to well developed foliation 45 to 90 degrees tca. 4 well - evenly spaced foliaform quartz sweats - typically 2 - 3 cm thick with irregular margins. Quartz sweats spotted with rust and rusty stained vugs.	lim	Mod	Limonite - local				EPy		0.1			
LS16-74	15.87	17.4	SCH-i			lim	Mod	Limonite - fair				EPy		0.1			15
LS16-74	17.4	21.34	SCH-i		Finely foliated chlorite (sericite) quartz SCH. Very similar to (13.97 - 15.87 m); finely foliated with local crenulation cleavage; mottled (greenish) grey; fine grained quartz, chlorite (sericite) SCH. Pyrite noted but rare and fine grained, euhedral, shiny cubes. Highlights: (17.74 - 17.90) Small discontinuous quartz sweats (lenses with irregular margins. 1/2 dozen in this sub-interval. Rare isolate pyrite --> limonite along margins. (19.45 - 20.0) Deformed mixed quartz and schist sub-interval; crackled and deformed quartz sweats with limonite in fracture fill. Lower contact conformable about a set of small light grey quartz sweats 1/2 cm thick at 65 degrees tca.	lim	Tr				EPy		0.1			10	
LS16-74	21.34	25.84	SCH-i	Other	*Logged as a GNE - gneissic? (21.34 - 23.78 m) Rusty beige quartz (feldspar?) mica SCH; meta - plutonic (?). Rusty beige with predominant beige quartz rich (feldspar?) folae and much lesser darker micas. Texture is a foliated allotriomorphic plutonic. Interpreted as a chill or finer texture meta-plutonic rock. Rust (limonite) prevalent along fracture planes - and particularly along foliation. Competent core. Rare trace amounts of euhedral cubic pyrite --> limonite. (23.78 - 25.84 m) FLT - oxidized, broken rusty. 70% rusty beige broken GNE (as above) + 30% fine crush and rusty clay gouge. Trace euhedral pyrite --> limonite noted in some broken pieces.	lim	Mod	Limonite - moderate to strong.			EPy		0.1				
LS16-74	25.84	32.71	SCH-i	Other	*Logged as a GNE Rusty beige grey quartz (feldspar) mica SCH; coarse grained foliated meta-plutonic rock? Very similar to (21.34 - 23.78 m); relatively more coarse grained - more obvious meta-plutonic texture - meta-granite? Moderate - coarse grained pale quartz - feldspar and moderately foliated rusty mica. Quartz - feldspar ~ 60%; rusty mica ~ 40%. Local white quartz sweats all foliaform at (30.20 m) - 5 x 10 cm with trace medium grained pyrite; at (30.60 m) - 7 cm thick with parallel sides at 45 degrees tca <-- these 2 are the largest; many others spaced through interval ~ 1/4 - 1/2 cm thick. Noted rare pyrite, euhedral cube, medium grained - coarse grained in matrix. Meta-plutonic rock / Quartz vein. Interval bound by predominantly foliaform quartz sweats, veinlets veins. Largest one at upper contact (32.71 m).	carb	Tr	lim	Wk		EPy		0.1			20	
LS16-74	32.71	33.28	QV Zone			lim	Wk					EPy		0.1			50
LS16-74	33.28	36.52	SCH-i	SCH-tec	*Logged as GNE (33.28 - 35.01 m) Micro - sheared light grey quartz - chlorite SCH - gneissic? Light grey sucrosic quartz as discontinuous fine (3 - 8 mm thick) lenses micro faulted with lesser darker fine (< 1 mm) chlorite - rich fracture fill along micro - shears and intercalated with quartz rich material. Fine, busy texture - unique. Rare pyrite as euhedral, cubes. (35.01 - 36.52 m) FLT - low angle tca. Shear of orange - beige gouge 1/2 - 2 cm thick at 0 - 5 degrees tca through SCH-i. Trace amounts pyrite in locally brittle deformed and locally weakly bleached SCH-i. Upper contact ~ 30 degrees tca. Lower contact ~ 20 - 40 degrees tca.	carb	Mod	lim	Wk	Limonite - trace to moderate / strong.		EPy		0.1			
LS16-74	36.52	38.29	SCH-i	SCH-ptm	Light grey quartz - chlorite SCH; - (meta-plutonic ??). Similar to (33.28 - 35.01 m) but without the micro-shearing. Sucrosic light grey quartz rich composition banding (lens - like) 5 - 8 mm wide grading to a weak meta-plutonic (?) texture. Darker intercalated folae (chlorite - mica) grading locally to elongated patches. Trace amounts of pyrite noted in rare white quartz sweats / lenses or in matrix associated with chlorite patches.	lim	Tr					EPy		0.1			10
LS16-74	38.29	38.52	SCH-f		Light tan / beige quartz - sericite (+/- chlorite) SCH. Light pale tan / beige with 30% white quartz sweats (1/2 dozen; 8 - 10 mm thick). Composition is a light colored quartz - sericite with chlorite accents about the white quartz sweats. Trace euhedral pyrite (fine grained, cubes) in matrix and along margins of quartz sweats. Conformable contacts: Upper contact 65 degrees tca, Lower contact 65 degrees tca.							EPy		0.1			30
LS16-74	38.52	39.19	SCH-i		Light grey quartz - chlorite SCH. Very similar to (36.52 - 38.29 m) but steeper angle tca 70 - 80 degrees tca. Trace rare pyrite as minute specs (<< 1 mm) in matrix - anhedral.							APy		0.1			
LS16-74	39.19	40.1	SCH-f		(39.19 - 39.39 m) Light tan / beige quartz - sericite (+/- chlorite) SCH + banded white quartz. Very similar to (38.29 - 38.52 m); more equally space white 1 - 2 cm thick quartz sweats - fined with slightly darker chlorite. Trace shiny, euhedral, cubic pyrite often associated with quartz sweats and margins: Lower contact at 90 degrees tca. (39.39 - 39.62 m) FLT - sheared tan/ beige quartz - sericite SCH. Light tan / beige to green - grey sheared SCH-f. shear consistent at 65 degrees tca and defined by increase in chlorite - sericite pyrite (anhedral). (39.62 - 40.10 m) Pale light tan / beige quartz - sericite SCH (meta-rhyolite?). Similar to (39.19 - 39.39 m); more homogeneous; planar foliation at 60 degrees tca; fewer white quartz sweats. Conformable lower contact 70 degrees tca.						EPy		0.1 APy	4 Apy locally up to 4%.			
LS16-74	40.1	40.52	SCH-i		Light grey quartz - chlorite SCH. Very similar to (38.52 - 39.19 m) - slightly steeper, tighter foliation - @ 80 - 90 degrees tca; pyrite noted in fine grained, disseminated trace amounts through interval; most appear anhedral but euhedral also noted. Composition: quartz (medium - irregular glassy); darker grey chlorite + lesser sericite; trace euhedral + anhedral pyrite - disseminated in matrix. No pyrite in white quartz sweats (largest is 3 cm across).							APy		0.1 Gn	0.1		
LS16-74	40.52	40.98	SCH-f		Pale light tan / beige Quartz - sericite SCH; Light tan beige, fine grained quartz rich + sericite, moderately foliated (planar) at 70 degrees tca. Trace pyrite pervasive as euhedral and anhedral grains. White quartz sweats of which there are 5, average 4 mm thick and may have some euhedral (shiny, cubic pyrite) along margins in trace amounts.							EPy		0.1 APy	0.1		10
LS16-74	40.98	41.42	SCH-i		Light grey quartz - rich chlorite SCH micro-shearing. Light grey quartz rich (+/- sericite) rock with sub parallel shear (chlorite --> 1 to 3 mm thick) at 60 degrees tca. Contact conformable: Upper contact = 70 degrees tca; Lower contact 70 degrees tca.							EPy		0.1			10
LS16-74	41.42	43.48	SCH-f		Pale tan / beige quartz - sericite SCH. Similar to (40.52 - 40.98); Relatively consistent moderately foliated quartz rich sericite SCH; weak deformed foliation generally at 50 - 70 degrees tca. Very white quartz sweats with thin linings of chlorite - sericite. One very pale 2 mm wide white quartz stringer 1/2 way down interval at 30 degrees tca. No major pyrite; trace amounts. Upper contact at 70 degrees tca; Lower contact at 80 degrees tca - both conformable.						EPy		0.1			15	
LS16-74	43.48	45.16	SCH-f		SCH-f / SCH-i - Intercalated light grey quartz - chlorite (sericite) SCH and tan / beige quartz - serite SCH. Mixed interval with generally finer, slightly more deformed folae and an increase of white quartz sweats (irregular margins fined with chlorite). Weak S3 at 35 degrees tca; general foliation in this interval is 45 - 90 degrees tca. Slight increase in euhedral pyrite towards lower contact associated with white quartz sweats but still in trace amounts. Foliation at contact (lower contact) with QV is 90 degrees tca. QV is x-cutting at 30 degrees tca.						EPy		0.1			10	

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
LS16-74	45.16	45.57	QV	White, weakly fractured with a rare limonite stain on exposed fracture surfaces. Pyrite occurs as coarse grained crystals isolate euhedral forms within the white quartz often along fracture and associated with limonite stain. Crystals up to 4 mm across. Pale tan / beige quartz - sericite SCH (meta-rhyolite). Very similar to (40.52 - 40.98 m) but a finer more defined foliation - wavy deformed - with trace - 1% very fine white specs in matrix (feldspar? or feldspar --> calcite?) interpreted as meta-rhyolite. Pyrite very rare as very fine grained, euhedral shiny cubes. Quartz vein (foliaform) - white bull quartz - no sulphides; fractured with no fracture fill material; foliaform quartz.	lim	Tr					EPy		0.1			5	
LS16-74	45.57	46.11	SCH-f														
LS16-74	46.11	46.31	QV														
LS16-74	46.31	54.95	SCH-f		Pale tan / beige quartz - sericite SCH. Generally similar to (41.42 - 43.48 m); extensive interval with local variations. General pyrite content very low --> trace and generally around white quartz sweats. Quartz sweats have irregular margins lived with (1 mm thick) dense sericite (+/- chlorite +/- pyrite). Highlights: (47.00 - 47.60 m) Noted compositional laminations --> white quartz; green - grey sericite (chlorite) - more deformed in this sub-interval. S3 development at 35 degrees tca. Local trace amounts of beige calcite associated with select white quartz sweats.	carb	Tr				EPy		0.1			10	
LS16-74	54.95	64.78	SCH-i	SCH-tlg	*Logged as GNE but appears to be SCH-mp. Quartz (feldspar) mica foliated meta-plutonic rock with weak gneissic texture. Grey with light grey to off white moderately foliated, coarse grained quartz, moderate - dark mica (chlorite, relic biotite) and rare accessory fine grained anhedral pyrite - in trace amounts. This interval has a distinct coarse meta-plutonic to gneissic texture. That is: local - rare - quartz (feldspar) segregation bands typically 5 - 8 mm thick (off white / beige) with wavy margins ad often discontinuous; coarse dark mica blotches elongated along foliation. Basically a foliated allotriomorphic / anhedral texture with local segregation bands or weak gneissic texture. Highlights: (59.0 - 59.25) Nose of fold? --> weakly oxidized GNE some fine crush / gouge along one foliation layer. tan / beige fine grained, weakly deformed quartz rich (meta-rhyolite / felsite?) lithology (64.78 ~ 70.58 m) - with noted white quartz sweats particular to the upper pattern (64.78 ~ 66.35 m) of this interval - up to 65% white sweats. Typically these sweats are close together and 1 - 4 cm in thickness with irregular margins. This meta - felsite (rhyolitic ?) is coded SCH-f. There is a low angle (~ 25 degrees tca) white milky quartz veinlet - 1.5 to 2 cm wide. The margins are irregular and fined with dark sericite - chlorite +/- white calcite (?) - 'dustings' of euhedral pyrite in quartz. This sub-interval is at (70.26 - 70.58 m). General foliation about this veinlet appear deformed at perpendicular angles ~ 80 - 90 degrees tca. (64.78 - 82.05 m) - general description continued: the interval becomes darker in color (> 70.58 m); generally fine to medium grained; finely foliated with moderate deformation, compositionally - chlorite - quartz SCH (+/- sericite); no compositional banding; color: moderate grey. Local spotted (chlorite clots ~ 3 mm across) between 72.30 and 73.0 m. Milky white quartz sweats are foliaform; locally in small folds (cm scale). Some local sweats (ie at 84.05 m) have white calcite associated with them. Pyrite is 'generally very fine grained, trace, anhedral to euhedral pervasively through unit. Weak paling of lithology between 84.30 and 84.96 m - pale beige interpreted as weak hydrothermal alteration. Upper contact	carb	Wk		APy		0.1			10			
LS16-74	64.78	82.05	SCH-f		*Logged as SCH-m; Chlorite (quartz) SCH. Dark greenish - grey chlorite - rich (fine to medium grained) quartz schist; texture is moderately ductile with local dark mottled patches (82.05 - 84.4 m); paling towards the lower contact (84.4 - 84.96 m). Other smaller local sub-intervals (85.20 - 85.40 m) and (83.90 - 84.0 m) of fine, tight folae - deformed. Milky white - light grey quartz sweats are few with select ones (ie. at 84 m) containing white calcite - up to 7% of sweat. Medium euhedral pyrite as isolate cubic forms are noted in chlorite SCH matrix, particularly around sweats - in overall trace amounts. Lower contact marked by irregular milky white quartz sweat at ~ 60 degrees tca. Perhaps occupying a structure.	carb	Wk				EPy		0.1			10	
LS16-74	82.05	84.96	SCH-i		Pale, altered sericite (+/- chlorite) quartz SCH (+/- poor compositional bands). Pale beige - grey; local poorly developed compositional banding - discontinuous, deformed, sheared --> light milky grey - white deformed bands average 7 mm wide; interlaminated with a greenish grey sericite (chlorite) finer - discontinuous folae / lamina. *Increase in euhedral shiny pyrite along folae compared to above intervals. Maybe interpreted as a poorly developed non-uniform SCH-lam ? Unit over all aked - weak to moderate hydrothermal alteration - sericite rich. Highlights: (84.96 - 85.18) Sheared, quartz rich (sweats) lower contact area with interstitial fracture fill of dark (Fe - rich) chlorite (sericite) - dark grey / black. (88.84 - 89.00) 1 spec of galena + 1 specs of euhedral pyrite in milky grey - white discontinuous quartz lens (1.5 x 10 cm).						EPy		0.1	Gn	0.1 Epy up to 1% locally.	15	
LS16-74	84.96	90	SCH-i		Dark coarse grained chlorite (+/- sericite) rich quartz SCH with coarse grained euhedral pyrite +/- galena. Coarse grained dark, weak to moderately coarsely foliated intermediate to predominantly mafic lithology comprising dark chlorite (+/- lesser sericite); quartz lenses and grains, grey plagioclase, amphibole --> dark chlorite; *medium to commonly coarse grained, euhedral cubic (shiny and striated) pyrite up to 6 mm long - isolate or in cluster groups and occasionally associated with lesser galena and suspect chalcopyrite. Pyrite up to 10% locally. Upper contact gradational and deformed 60 - 90 degrees tca. Lower contact shear plane with knife edge brecciation at 50 degrees tca (gabbroic parent?).							EPy		7	Gn	0.1	10
LS16-74	90	94.61	SCH-m		Very ductile SCH-lam; non uniform + pyrite (+/- galena in quartz sweats). Compositional, uneven, 'ropey textured' grey white quartz - deformed and 3 - 10 mm thick; interlaminated with green - grey chlorite rich folae / laminae pinching out and becoming discontinuous in last meter of interval. A spec of galena was noted at 95.0 m in a small irregular (3 - 5 cm) thick milky white quartz sweat - also containing trace pyrite. The unit has 3 - 7% medium grained (lesser fine grained) euhedral striated pyrite cubes along deformed folae. Folae very deformed of all angles to the core axis. Lower contact low angle tca with increase coase mica --> chlorite at 20 degrees tca.							EPy		4	Gn	0.1	
LS16-74	94.61	97.21	SCH-i	SCH-lam-nu	grained Fe - chlorite +/- rare fuchsite - coarse gollation and lesser sericite alteration after plagioclase make up the minor lighter material as well as quartz and rare calcite fracture coatings. Pyrite, although lesser than (94.61 - 97.21 m) interval, is typically medium grained, euhedral cubes (shiny and striated) isolate or in small cluster groups; no galena or chalcopyrite noted in matrix. Highlights: (97.79 - 97.97) Green fuchsite - trace; coarse grained. (97.97 - 98.25) White quartz lens / sweat with 1 spec galena and trace pyrite. Lower contact with fault at 30 - 40 degrees tca. (98.86 - 99.28 m) FLT - Beige - dark green grey FAULT. 60% beige gouge + crush; and 40% dark SCH-m (as previous interval) pieces up to 10 cm; minor quartz crush. Trace - 1% in SCH-m core pieces. (99.28 - 103.57 m) Chlorite rich (quartz) SCH. Similar to (97.21 - 98.86 m) except fine grained; lesser sulphides (pyrite) with increasing lighter medium to coarse grained sericite towards end of interval. Still predominantly Fe-rich medium to coarse grained chlorite with lesser quartz. Medium grained pyrite as clusters along subtle quartz rich bands up to 1/2 cm thick up to 15% locally near upper contact with fault; pyrite content quickly decreases to 1 - 3% for most of interval. No fuchsite noted. Lower contact grades into deformed compositional banding marked by discontinuous quartz sweats at 45 degrees tca. Highlight: (101.36 - 101.79 m) increase	carb	Wk		Carbonate weak to moderate		EPy		3	Gn	0.1 Epy up to 5% locally.	5	
LS16-74	97.21	103.57	SCH-m		Very ductile SCH-lam; non-uniform. Very similar to (94.61 - 97.21 m); less pyrite content; coarser grained mica with weak hydrothermal alteration - increase of sericite. Compositional banding typically 5 - 8 mm thick light grey deformed quartz - rich bands (deformed); interlaminated with chlorite - sericite bands; ~60 - 40 ratio, respectively. Pyrite as fine to medium grained (lesser) euhedral shiny, cubes along folae / lamina; typically trace - 3%. Compositional bands are sinusoidally deformed at close to 0 degrees tca. E.O.H. at 105.16 m.							EPy		2		5	
LS16-74	103.57	105.16	SCH-i	SCH-lam-nu													
LS16-75	1.53	2.35	SCH-f		Tan quartz - sericite +/- chlorite, moderately foliated SCH. Rubble, moderate FeOx. Patchy blebs to dendritic MnOx along fracture surfaces. ~1% patchy disseminated , strongly oxidized pyrite. Contact with SCH-m is 75 degrees tca, sharp + conformable. Pyrite is fine grained. Locally follows foliation. Weak leached stringers ~ 10 degrees tca. Disseminated pyrite is sub-euhedral. Strong deformation. Possibly soft - sed then ductilely deformed? < 1% patchy epidote. Epidote is found following foliation + banding + within fractures. Trace hematite along fractures + replace oxidized pyrite. Limonite replacement oxidized pyrite + occasional along S3 foliation + compositional banding. S3 predominantly 30 - 50 degrees tca. S1 / S2 highly variable. Pyrite is patchy. Variable from trace - 2%. Overall ~ 0.5%, sub-euhedral, fine to medium grained, rare coarse grained. Often pyrite is pitted + oxidized to leached. Often follows compositional banding but some found is leached + oxidized. Stringers with epidote, carbonate +/- trace hematite. Stringers are variable 10 - 60 degrees tca. Moderate to locally strong hairline to 2 m. SCH-i is interspersed with small sections of SCH-m --> chlorite - quartz - sericite and rare SCH-f as 1.53 - 2.35 m. SCH-m intervals 3 - 20 cm wide. Trace patchy FeOx haloing fractures. Local weak gouge along some fractures: 3.05 m - 5 cm, 60 degrees tca; 5.50 m - 3 mm - 70 degrees tca; 5.60 m - 2 mm - 65 degrees tca; 6.45 m - gouge and brx ~ 10 mm - 65 degrees tca. 11.10 - 11.40 m leached and pitted with clay, sericite, limonite + relict oxidized sub-anhedral fine to medium grained pyrite. Leaching ~ 20%. Pyrite also in possible trace act (actinolite?) in one vug. Green, acicular crystals ~ 1 mm in length at 11.30. 7.60 m Quartz carbonate sweatto disc foliaform vein. 1 cm width ~	lim	Mod				EPy		1				
LS16-75	2.35	14.2	SCH-i	SCH-ptm	Dark green - grey. Moderately foliated chlorite - sericite - quartz SCH. Weap epidote + trace limonite along foliation. Trace pyrite, fine to medium grained, cubic, weakly oxidized. Dark black soapy stringers - 70 degrees tca strong very fine grained cubic pyrite in stringers. Near lower contact small 3 - 5 cm wide SCH-f, 30 - 40 degrees tca contacts, at intervals. Rhy sills? conformable contacts. Unit is crenulated and deformed similarly to 2.35 - 14.20 m. Strong carbonate alteration in augen shaped lenses along fractures. 14.30 m - gouge 70 degrees tca, 5 mm. 14.35 m - gouge - 70 degrees tca, 1 mm.	carb	Tr	lim	Tr	Epidote - trace.		EPy		1	Gn	0.1	1
LS16-75	14.2	14.75	SCH-m										EPy		0.1		10
LS16-75	14.75	16.25	SCH-f		Tan to greenish - tan. Quartz - sericite moderately foliated SCH. Very fine grained to fine grained sugary textures. Very faint compositional banding. Pinprick relict feldspars? +/- carbonate alteration. Quartz sweats at contacts. Upper contact - 40 degrees tca, lower contact 10 degrees tca. Weak to moderate tensional fracturing --> infilled by quartz + carbonate stringers to veinlets. Veinlets are vuggy with trace pyrite + trace galena. Limonite + hematite alteration of sulfides. chlorite + epidote + carbonate +/- hematite fracture fill stringers cut quartz + carbonate veinlets. Chlorite - epidote - carbonate +/- hematite stringers are roughly 50 - 85 degrees tca. Quartz + carbonate veinlets / stringers are ~ 5-25 degrees tca. Where chlorite stringers cut quartz veinlets chlorite + epidote form larger blebs. Boundaries of quartz + carbonate veinlets are slightly diffuse. Overall pyrite in SSCH-f is cubic, fine grained, disseminated < 1%.	carb	Tr	lim	Tr	Epidote - trace.		EPy		0.1	Gn	0.1	
LS16-75	16.25	18	SCH-m		Grey - green crenulated, compositionally banded, ductilely deformed quartz - chlorite - sericite SCH. Overall 60 degrees tca foliation. 30 - 70 tca S3. <1% overall but locally 1% sub-euhedral cubic pyrite. Occasional oxidized rims. Pyrite follow laminations. Chlorite + epidote + carbonate +/- hematite +/- pyrite stringers moderate to strong, at 50 - 60 degrees tca. Occasional increase in quartz rich laminations. Occasional 1 - 3 cm quartz sweats. Sweats have trace leached pits and vugs + small blebs of chlorite + chlorite sch in clasts; very weak carbonate alteration pervasive.	carb	Wk	lim	Tr			EPy		0.1			

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
LS16-75	18	22.3	SCH-f	Tan to green - tan, moderately foliated, weakly compositional banded quartz - sericite schist. Moderate ductile deformation. Same as 14.75 - 16.25 m. Upper contact at ~70 degrees tca sharp + conformable. Lower contact 85 degrees tca, sharp. Small interval of SCH-m (as 16.25 - 18 m) at 18.5 - 18.60 m. Contacts --> 50 + 60 degrees tca. Trace disseminated fine grained sub-euhedral pyrite. Epidote - carbonate +/- chlorite +/- pyrite +/- hematite stringers, moderate to strong. Dom.??? 30 - 60 degrees tca. Where minor tensional jogs occur stringers are wider + exhibit albite haloes up to 3 mm wide. (SCH-i --> quartz - chlorite - sericite to quartz - sericite - chlorite) Both schists are finely laminated to banded, but the SCH-i is more so. The SCH-m contains greater sweats than the SCH-i and displays a greater degree of crenulation. S3 = 60 degrees tca decreasing to 40 degrees tca downhole. Strong ductile deformation. The SCH-i has ~1% sub-euhedral fine to medium grained pyrite, often fractured + oxidized along fracture. The SCH-m has trace sub-euhedral pyrite, often evident???? pressure shadows, and occasionally coarse grained (up to 4 mm) with inclusions of carbonate + chlorite + epidote. Epidote alteration is moderate within the SCH-m but weak to trace within SCH-i. Carbonate is found replacing feldspars within SCH-i and within foliation of SCH-m. Main SCH-i intervals are 22.50 - 22.88 m (80, 70 tca contacts), 26.45 - 27 m (60, 55 tca), 28.50 - 28.60 m (50, 75 degrees tca). Contacts are all folded and deformed together. *29.20 - 31.65 m is also SCH-i, but appears to be contact metamorphosed by a basalt dyke. This interval is quartz - biotite - muscovite. Pyrite is coarse grained up to 6 mm, sub-euhedral. There appears to be a minor fold, limbs at 40 degrees tca ad then 60 degrees tca closer to contact. Near basalt are two breccias 50 - 40 degrees tca and 10 - 30 degrees tca. 3 cm wide + 2 cm. Minor sinistral offsets near breccias. Cataclasite small veinlets of basalt also occur within this interval + as do fine Black, weakly plagioclase - phyrlic, fine grained plagioclase - pyrite - olivine BASALT. Upper contact 50 degrees tca, lower contact 35 degrees tca. Contacts are sharp with weak chill margins. Moderately to strongly magnetic. Plagioclases are moderately - strongly carbonate altered. Phenocrysts are long and lath like up to 2 mm. Trace very fine grained to fine grained anhedral - subhedral pyrite. Trace hematite. No x-cutting veins. Dyke possibly utilizing larger structure?	carb	Wk	lim	Tr	Epidote - trace to weak.	EPy	0.1			3		
LS16-75	22.3	31.65	SCH-m	Similar to 22.30 - 31.65 m, but SCH-i dominant over SCH-m. SCH-m intervals are green grey foliated to crenulated, chlorite - quartz - sericite to chlorite - sericite - quartz, and compositional banded to finely laminated, and consist of ~40% of the interval. Pyrite very fine grained - coarse grained sub-euhedral, locally 2% overall trace. SCH-i is tan to green - tan, foliated - crenulated, finely laminated, quartz - sericite - chlorite to quartz - chlorite - sericite. It contains ~2% subhedral magnetite disseminated, fine to medium grained up to 37.35 m. Weak contact meta (metamorphism?) to this point. Weak oxidation to 34.8 m + small fault at 34.8 m. 30 degrees tca. Minor breccia as in above BAS at 32.75 - 32.90 m, 30 - 40 degrees tca. In contact metamorphism portion small blue quartz eyes ~ 0.5%. Increased quartz sweats in SCH-m. Overall foliation is variable. Both units strongly ductilely deformed. Within contact metamorphism SCH-i ~ 0.5% blue quartz eyes. 0.5 - 1 mm in size. Trace galena in quartz foliaform vein to sweat at 37.30 m. Quartz - carbonate, 1 cm wide. Trace pyrite + galena, 55 degrees tca. Foliaform veins + quartz sweats (quartz - carbonate - chlorite +/- pyrite +/- galena.	carb	Tr	lim	Tr	Epidote - trace to weak	EPy	0.1			10		
LS16-75	31.65	32.25	BAS	Similar to 22.30 - 31.65 m + 32.25 - 44.8 m. SCH-m dominant. ~30% SCH-i intervals. Epidote alteration fair overall, locally up to moderate - strong. Trace fuchsite on fractured surface at end of hole. ~7% quartz sweats + foliaform veins (quartz + carbonate - chlorite +/- pyrite). E.O.H. Tan, weakly crenulated, weakly compositional banded. Quartz - sericite +/- chlorite SCH. Mafic laminate are poorly defined whips to fine < 1 mm bands. Very fine grained, disseminated oxidized pyrite (1%) along foliation. Weak shear near lower contact which is faulted with minor gouge. Sinistial appearance 30 - 35 degrees tca S - plane, 55 degrees tca C - plane. Fault plane 45 degrees tca with slicks on surface. Weak Fe-Ox, very weak MnOx dendritic blebs on fracture faces. Broken core. Rare epidote + chlorite + hematite --> fine grained, limonite halos. Disc. trace pyrite, 40 degrees tca.	carb	Mod			Carbonate - moderate to strong.	APy	0.1					
LS16-75	32.25	44.8	SCH-i	Similar to 22.30 - 31.65 m + 32.25 - 44.8 m. SCH-m dominant. ~30% SCH-i intervals. Epidote alteration fair overall, locally up to moderate - strong. Trace fuchsite on fractured surface at end of hole. ~7% quartz sweats + foliaform veins (quartz + carbonate - chlorite +/- pyrite). E.O.H. Tan, weakly crenulated, weakly compositional banded. Quartz - sericite +/- chlorite SCH. Mafic laminate are poorly defined whips to fine < 1 mm bands. Very fine grained, disseminated oxidized pyrite (1%) along foliation. Weak shear near lower contact which is faulted with minor gouge. Sinistial appearance 30 - 35 degrees tca S - plane, 55 degrees tca C - plane. Fault plane 45 degrees tca with slicks on surface. Weak Fe-Ox, very weak MnOx dendritic blebs on fracture faces. Broken core. Rare epidote + chlorite + hematite --> fine grained, limonite halos. Disc. trace pyrite, 40 degrees tca.	carb	Tr	lim	Mod	Epidote - weak, Limonite moderate to trace as we go down interval.	EPy	0.1	Gn	0.1	10		
LS16-75	44.8	53.3	SCH-m	Similar to 22.30 - 31.65 m + 32.25 - 44.8 m. SCH-m dominant. ~30% SCH-i intervals. Epidote alteration fair overall, locally up to moderate - strong. Trace fuchsite on fractured surface at end of hole. ~7% quartz sweats + foliaform veins (quartz + carbonate - chlorite +/- pyrite). E.O.H. Tan, weakly crenulated, weakly compositional banded. Quartz - sericite +/- chlorite SCH. Mafic laminate are poorly defined whips to fine < 1 mm bands. Very fine grained, disseminated oxidized pyrite (1%) along foliation. Weak shear near lower contact which is faulted with minor gouge. Sinistial appearance 30 - 35 degrees tca S - plane, 55 degrees tca C - plane. Fault plane 45 degrees tca with slicks on surface. Weak Fe-Ox, very weak MnOx dendritic blebs on fracture faces. Broken core. Rare epidote + chlorite + hematite --> fine grained, limonite halos. Disc. trace pyrite, 40 degrees tca.	carb	Tr	lim	Tr	Epidote - fair.	EPy	0.1			7		
LS16-76	2	3.15	SCH-f	*Was logged as a SCH-um? Chlorite - sericite - quartz SCH-um (serpentine?). Grey - green, crenulated, locally ductilely deformed (strong) relatively massive to very weakly compositional banded. Chlorite - serpentine - quartz SCH. ~5% highly deformed felsic bands to pds (quartz - sericite), possibly relict felsic dykelets? or intermediate - felsic xenoliths?? Overall serpentine? Trace - weak epidote. Weak to moderate limonite. Weak to moderate MnOx on fracture surfaces as staining to occasional dendritic blebs. Upper contact + minor gouge 10 cm. Minor faults - 30 degrees tca with weak slickenlines + minor clay. Two 1.5 + 2 cm wide discontinuous foliform quartz veinlets with epidote + hematite in fractures. 30 + 60 degrees tca. Very weakly locally magnetic. Trace very fine grained disseminated pyrite - oxidized.	carb	Tr	lim	Wk		EPy	1			3		
LS16-76	3.15	4.7	SCH-m	Quartz - sericite - chlorite SCH-i. Cream to grey, highly ductilely deformed, locally crenulated. (S3 40 - 50 degrees tca dom.) Weakly locally sheared quartz - sericite - chlorite schist. Perhaps minor SCH-lam? Pyrite is very fine grained to fine grained, disseminated, sub-euhedral + blebby sub-anhedral. Local 2% but overall ~ 0.5%. Occasional leached vugs + pits in core along foliation. Moderate epidote as stringers 30 degrees tca around 13 - 14 m + trace overall follow foliation as stringers and blebs. Local SCH-f (silty ????? intervals perhaps turbidite sequences? in protolithic environment??). Ductile deformation maybe cottsed??? deformation pre lithification? Laminiae are finely spaced, varying from rhythmic < 1 mm intervals to 3 mm intervals overall some wider bands, such as the SCH-f, up to 12 cm. Minor chlorite +/- serpentine bande in more ductilely deformed sections. 15.15 - 19.15 m slightly higher % SCH-um intervals. Trace to weak FeOx often within leached pits + along fractures. Trace biotite patchy.	carb	Mod	lim	Wk	Epidote - weak	EPy	0.1	APy	0.1	5		
LS16-76	4.7	19.15	SCH-i	Tan - grey banded to laminated weakly ductilely deformed. Quartz - sericite +/- chlorite schist. Interlaminations with minor SCH-um + SCH-i. ~1% leached vugs along foliation. 40 degrees tca dominant foliation.	carb	Tr	lim	Tr	Epidote - weak, Limonite trace to weak.	EPy	0.1	APy	0.1		6	
LS16-76	19.15	19.9	SCH-f	Local SCH-ptm texture; Grey - tan, locally crenulated, locally ductilely deformed quartz - sericite - chlorite SCH. Same as 4.70 - 19.15 m. ~1% very fine grained, disseminated along foliation, sub-euhedral.	lim	Tr			Epidote - trace	EPy	0.1				8	
LS16-76	19.9	22.68	SCH-i	*Logged previously as SCH-um; Serpentine? - chlorite - quartz SCH-um. Green - tan, crenulated + locally ductilely deformed. ~25% 2 - 10 cm wide, moderately ductilely deformed. SCH-f (quartz - sericite +/- chlorite) intervals. Trace to weak blebs to disc. stringers + lenses of epidote along foliation. Pyrite < 1% specs, very fine grained, disseminated, sub-euhedral. S3 - 20 - 25 degrees tca. S2 - 20 - 60 degrees tca. Trace FeOx to 25.60 m. Weak to moderate to end of interval. Minor faulting at 25.70 m + 25.75 m + 25.91 m. 25.70 m --> 1 cm gouge oxidized + carbonate altered, 40 degrees tca. 25.75 m --> minor clay + oxidized, 30 degrees tca. 25.91 m --> Rubble and minor clay on fracture surfaces. Oxidized + minor gouge, 30 degrees tca. Slicken lined surfaces at 10 degrees tca.	lim	Tr			Epidote - trace.	EPy	1			3		
LS16-76	22.68	25.91	SCH-m	Grey - green to grey - tan, ductilely deformed, crenulated locally, Quartz - sericite - chlorite to quartz - chlorite - sericite SCH. Minor intervals of chlorite +/- serpentine SCH. < 5% compositional banded, fine laminae. Occasional more felsic (quartz - sericite) interval, usually 3 - 10 cm, but larger from ~ 29 - 29.50 m. Conformable. Weak FeOx at upper contact with fault. Occasional slicken lined fracture - 30 degrees tca +/- clay. Weak epidote as blebs + lenses along foliation + along quartz - carbonate sweats. Pyrite very fine grained to fine grained, sub-euhedral disseminated along foliation. Variable, but 1% overall. ~3% foliform quartz veins / sweats. Occasional trace chlorite inclusions + trace pyrite. S3 40 - 50 degrees tca.	carb	Tr	lim	Tr	Epidote - trace to weak.	EPy	0.1			3		
LS16-76	25.91	30.5	SCH-i	SCH-i with local ptm texture. (30.50 - 31.70 m) Continuation of 25.91 - 30.50 m, but moderate to strong FeOx from nearby fault. Patchy rubble with minor clay, and local gouge. Blebby, dendritic MnOx along fracture surfaces. Moderate - strong epidote. 20 - 30 degrees tca faults. Trace pyrite. (31.70 - 31.92 m) FLT - gouge, 8 cm. Rubble with patches of gouge. 55 + 30 degrees tca fragments. Trace pyrite. (31.92 - 36.60 m) Continuation of 30.50 - 31.70 m. Rubble with minor fault surfaces. Weak to moderate epidote. Moderate - strong FeOx. MnOx, quartz vein at 32.00 m, cut + fractured by chlorite cemented breccia with epidote, 20 degrees tca. Locally 1% pyrite. Overall 0.5% sub-euhedral, fine grained. Minor chlorite breccia at 34.70 m. 0.5 cm wide, 40 degrees tca. Patchy leaching.	lim	Tr			Epidote - weak	EPy	1			3		
LS16-76	30.5	36.6	SCH-i	SCH-i with local ptm texture. Grey - green to grey - tan, ductilely deformed, finely compositional banded quartz - sericite - chlorite SCH. Local SCH-um patches appearing to be squeezed into fold axis and embayments. Strongly chlorite +/- serpentine. Overall unit has weak epidote overprint. Weak local crenulations. < 1% pyrite, disseminated, sub-euhedral + occasional cluster of anhedral very fine grained pyrite.	lim	Mod			Epidote - moderate, Limonite - moderate to strong.	EPy	0.1				8	
LS16-76	36.6	39.7	SCH-i	*Logged previously as SCH-um? Green - grey, crenulated chlorite - quartz - serpentine? SCH. Ductilely deformed. Minor local shear at 30 degrees tca, 41.30 m, ~1 cm width. Sinistral appearance. Interval of SCH-f is disrupted ductiley by chlorite + epidote veinlets with sinistral jogs. S3 of crenulation - 50 degrees tca. Minor chlorite + hematite stringers at 40.68 m. 40 degrees tca along with foliation. Fair epidote overprinting. < 1% pyrite. Locally 1%.	lim	Tr			Epidote - weak.	EPy	0.1	APy	0.1		5	
LS16-76	39.7	41.4	SCH-m	Green - tan, strongly deformed, locally brecciated, 1 cm noted quartz - chlorite - sericite SCH. Minor SCH-um as 39.70 - 41.40 m; interval at lower contact. Overall unit looks to have initially been moderate - strongly ductilely deformed, but then weakly brittlely - ductilely deformed. Fault breccia from 41.85 - 41.95 m, weakly sheared clasts chlorite + epidote --> 30 - 40 degrees tca. Clasts are sand to pebble in size. Trace very fine grained sub-euhedral pyrite disseminated. Epidote overprint as blebs, wisps in foliation + chlorite - epidote stringers along breccia ????? Trace FeOx along fractures.	carb	Tr	lim	Tr	Epidote - fair.	EPy	0.1			5		
LS16-76	41.4	43.18	SCH-i	Tan, locally ductilely deformed, weakly to finely compositional banded, locally crenulated. Quartz - sericite +/- trace chlorite SCH. Trace very fine grained disseminated pyrite, sub-euhedral. Trace spec possible galena in quartz - carbonate sweat. Blue - grey metallic, very fine grained no visible cleavage. At 43.37 m trace epidote along mafic compositional laminae. S3 - 70 - 30 degrees tca. Upper contact 60 degrees tca. Lower contact 20 degrees tca. Contacts are poorly defined. Quartz sweats / disc foliaform veins contain up to 10% epidote - sericite - chlorite inclusions + trace pyrite. Selvages of epidote + sericite < 1 mm. Increased epidote at contacts.	lim	Tr			Epidote - weak.	EPy	0.1					
LS16-76	43.18	44.2	SCH-f	Grey - green to grey - tan, locally weakly crenulated, ductilely deformed, banded to laminated, quartz - chlorite - sericite to quartz - sericite - chlorite SCH. Minor intervals of SCH-f, and very minor SCH-um. Infrequent pyrite fine grained to very fine grained laminations to lenses. < 1 mm and 4% cubic, sub-euhedral pyrite, fine grained, disseminated. Trace biotite in more mafic sections? Very fine grained black micaceous looking specs. Weak to trace epidote overprint. Trace FeOx along fracture and along some laminae.	carb	Tr	lim	Tr	Epidote - trace.	EPy	0.1	Gn	0.1		10	
LS16-76	44.2	50.15	SCH-i	Grey - green to grey - tan, locally weakly crenulated, ductilely deformed, banded to laminated, quartz - chlorite - sericite to quartz - sericite - chlorite SCH. Minor intervals of SCH-f, and very minor SCH-um. Infrequent pyrite fine grained to very fine grained laminations to lenses. < 1 mm and 4% cubic, sub-euhedral pyrite, fine grained, disseminated. Trace biotite in more mafic sections? Very fine grained black micaceous looking specs. Weak to trace epidote overprint. Trace FeOx along fracture and along some laminae.	carb	Tr	lim	Tr	Epidote - trace to weak.	EPy	0.1				8	

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
LS16-76	50.15	51.82	SCH-m		*Logged previously as SCH-um. Green - tan, locally banded, ductilely deformed, locally crenulated, strongly chloritic, Chlorite - serpentine? - quartz SCH. Small intervals of SCH-f + SCH-i. Possible very trace fuchsite? Hint of lighter blue - green near 50 m near quartz laminae. Minor black biotite, very fine grained at 51.60 m. Trace chalcopyrite + galena in boudined quartz veinlet with chlorite + relict? biotite inclusions. Veinlet is 1 cm width following foliation at 50 degrees tca. ~5 mm wide, snowflake - like blebs of carbonate alteration below 50.70 m. ~5% trace very fine grained flecks of hematite. Trace epidote overprint patchy. E.O.H.	carb	Mod		Epidote - trace		EPy		0.1 Gn		0.1		8	
LS16-77	1.8	4.39	SCH-f		Cream - green, fine grained, weakly crenulated, weakly laminated quartz - sericite SCH. Felsic dyke protolith. Trace chloritized + FeOx relict phenocrysts < 2 mm. Disseminated, very fine grained to fine grained, oxidized pyrite, sub-euhedral. Trace epidote overprint along rare stringers with limonite, 20 - 30 degrees tca. S3 30 - 40 degrees tca. General foliation ~ 50 degrees tca. MnOx dendritic blebs on fractures.	lim	Wk		Epidote - trace.		EPy		1 APy		0.1		3	
LS16-77	4.39	4.98	QV Zone		Foliaform quartz vein, brecciated in foliation to weakly boudined. Cut by 30 + > 0 degrees tca limonite +/- chlorite +/- epidote +/- pyrite +/- sericite stringers moderate. Small gouge + breccia at 50 degrees tca, 5.98 m. 0.5 cm width.	lim	Mod		Epidote - trace		EPy		3				80	
LS16-77	4.98	5.1	SCH-f		Similar to 1.80 - 4.39 m, but no crenulation. (Cream - green, fine grained, weakly crenulated, weakly laminated quartz - sericite SCH. Felsic dyke protolith. Trace chloritized + FeOx relict phenocrysts < 2 mm. Disseminated, very fine grained to fine grained, oxidized pyrite, sub-euhedral. Trace epidote overprint along rare stringers with limonite, 20 - 30 degrees tca. S3 30 - 40 degrees tca. General foliation ~ 50 degrees tca. MnOx dendritic blebs on fractures.)	lim	Tr		Limonite - trace to weak; Epidote - trace.		EPy		1					
LS16-77	5.1	5.74	QV		Massive, white quartz vein. Cross cutting to foliform.5 cm host rock clast in center of vein. Very faint grey quartz --> exsolution texture. Trace leached pits to vugs. Trace sub-euhedral, oxidized pyrite, fine to medium grained. Fine gractures + trace leached stringers, 20 degrees tca. Trace MnOx on fracture surfaces. Increased limonite + sericite at contacts.	lim	Tr				EPy		0.1					
LS16-77	5.74	11.68	SCH-f		(5.74 - 10.90 m) Similar to 1.80 - 4.39 m. Parasitic folds, 40 - 70 degrees tca. Less crenulated. Micro broken core to rubble at 7.50 m. 40 degrees tca fracture with slicks, + strong limonite at 10.65 m. Compositional banding moderate. (10.90 - 11.08 m) QV - coarse grained, white quartz veins. X-cuts foliation. (11.08 - 11.68 m) Continuation of 5.74 - 10.90 m.	lim	Wk		Epidote - trace, Limonite - weak to trace.		EPy		1		Epy - trace up to 2% locally.		15	
LS16-77	11.68	12.37	SCH-i	Other	*Was logged as GNE. Cream - green, medium to coarse grained, schistosity granodiorite? protolithic SCH - gneiss. Relict hornblends chloritized + strongly deformed. Equigranular to seriate original texture? ~1% very fine grained to fine grained, sub-euhedral pyrite. Brassy to oxidized. Strongly ductilely deformed, locally, degree of foliation variable. Minor crenulation locally at S3 70 degrees tca. Trace hematite in relict maf (mafic?). *Very similar possible to GNE in LS16-74 but slight different degree of metamorphism. Epidote weak to trace along S3 + S2 i relict maf (mafic?) Minor MnOx blebby to weakly dendritic along fractures Trace FeOx in maf (mafics?) + along fractures + in pyrite. Very poorly defined contacts. Upper contact 40 degrees tca lower contact 50 degrees tca. Possibly continuation of 11.08 - 11.68 m but with differing degree of deformation or xenoliths of below unit?	carb	Tr	lim	Tr	Epidote - trace to weak		EPy		2 APy		0.1 Chalcopyrite - trace.		15
LS16-77	12.37	14.17	SCH-f		Similar SCH-f as 5.74 - 10.90 m. Moderately crenulated. Quartz - sericite - chlorite SCH. Minor chlorite + epidote bands along foliation. Locally strongly ductile deformation. Trace - weak epidote along S3 + S2 in rare mafics (chloritized hornblende). Overall fine grained appearance. Very fine to fine grained, sub-euhedral, disseminated oxidized pyrite. Weak MnOx on fracture. Lower contact moderately defined at 50 degrees tca. Sharp? Xenoliths? Trace galena in quartz vein breccia. Possible small intervals of 11.68 - 12.37 m SCH-f. Increase in sweats / foliaform near lower contact.	carb	Tr	lim	Tr	Epidote - trace to weak.		EPy		1 Gn		0.1		15
LS16-77	14.17	15.24	SCH-i	Other	*Was logged as GNE. Green - tan, locally brecciated to sheared, moderate deformation. Quartz - sericite - chlorite SCH. Protolith possibly granodiorite. 11.68 - 12.37 m suspected to be same as this unit. Possible medium to coarse grained, equi-seriate parent texture. *similar to GNE in L S16 -74.	carb	Wk	lim	Tr	Epidote - trace.		EPy		2				5
LS16-77	15.24	18.34	SCH-f		Same as 12.37 - 14.17 m. Local crenulation. Minor interval of SCH-m / serpentine? (strong crenulation) from 16.18 - 16.40 m. Upper contact 40 degrees tca, lower contact 20 degrees tca. Upper contact well defined, sharp. Lower contact poorly defined. Foliation of SCH-f changes from 40 degrees tca above SCH-m interval to sub-parallel tca below, increasing down hole to 20 degrees tca. From 19.42 m to end of interval unit appears chilled. Lower contact is well defined and rubbly. Roughly 40 degrees tca. MnOx + FeOx along fracture. Minor ??? ??? of 18.34 - 19.20 m near contact. FLT at 19.43 m. 15 degrees tca. Minor gouge.													
LS16-77	18.34	19.1	SCH-i	Other	*Was logged as GNE. Similar to 14.17 - 15.24 m. 8.54 - 18.70 m appears less deformed. Chloritized relict hornblends up to 0.5 mm, subhedral. Minor chilled (15.24 - 18.34 m?) dykes. ~2% very fine grained to coarse grained, cubic, sub-euhedral pyrite disseminated. Moderate deformation. Weakly brecciated at lower end of interval. Chlorite matrix in breccia. FeOx along fracture. MnOx trace on fractures.	carb	Tr	lim	Tr	Epidote - trace.		EPy		3				5
LS16-77	19.1	22.4	SCH-f		(19.1 - 22.4 m) Same as SCH-f as 15.24 - 18.34 m. Weak fracturing. S3 70 degrees tca. Upper contact brecciated + broken core. Lower contact 65 degrees tca. Sharp ~ 0.5% pyrite, disseminated, fine grained, oxidized. (19.50 - 22.40 m) FLT - Rubble + minor gouge. Intense FeOx. Minor illite. Weak epidote. Mixed felsic + mafics to ultramafic. Deformed. MnOx on fracture. Variable pyrite fine grained to coarse grained, sub-euhedral, oxidized. Some leached pits. Faulting appears to be 60 - 70 degrees tca. Trace fuchsite on more mafic section. Large quartz sweat. FeOx from 20.05 - 20.15 m + trace pyrite.	carb	Mod	lim	Mod	Epidote - trace, Carbonate - trace to moderate - strong. Limonite - trace and strong.		EPy		2		Epy - trace to 2%.		3
LS16-77	22.4	28.5	SCH-m	SCH-ptm	*Was logged as SCH-um. Dark green - grey, locally ptygmatic, chlorite - serpentine - quartz to chlorite - quartz - sericite +/- serpentine SCH. Some more mafic - ultramafic intervals interspersed with more quartz rich, felsic interval. Local boudining of more quartz rich veinlets. Minor crenulation at S3 65 - 75 degrees tca. ~1% disseminated, fine to medium grained pyrite. Sub-euhedral. Trace hematite. Limonite in leached pits local 3%. 24.75 - 24.85 m 50 degrees tca, com. large foliaform quartz vein. Weakly boudined + FeOx stained from nearby fault. Trace pyrite.	carb	Mod	lim	Wk	Epidote - trace.		EPy		1				10
LS16-77	28.5	33.05	SCH-f		Similar to 12.37 - 14.17 m. Cream - green weakly compositional laminations, locally deformed quartz - sericite +/- trace chlorite SCH. Protolith possibly fine grained dyke felsic. < 1% pyrite, disseminated. Minor SCH-m to SCH-um intervals. Upper contact moderate deformation at 70 degrees tca. Foliation varies down hole --> 70, 20, 30 lower contact at 28.83 m. Next contact at 70 degrees tca at 28.93 m, foliation 60, 80, possible 70 degrees tca. Lower contact. Poorly defined. Next contact 85 (large quartz veinlet), 70, crenulated. S2 80, 50 foliation, 20, 40, 60 lower contact at 30.04m. Small intervals intermixed with SCH-m/ um to 31.20 m. Contact 70 degrees tca sharp. Foliation 70 - 45 degrees tca to lower contact at 33.05 m, 60 degrees tca. Moderate defined. 30.13 - 30.19 m moderate magnetic + minor hematite. 1% - locally 3% leached pits.	carb	Str	lim	Tr	Epidote - trace.		EPy		0.1				2
LS16-77	33.05	41.5	SCH-m	SCH-ptm	*Was logged as SCH-um. Dark to medium green, crenulated, strongly ductilely deformed (ptygmatic). Chlorite - serpentine +/- quartz SCH. (serpentine). Minor felsic (strongly deformed in SCH-um) intervals. Rare re-crystallized sub-euhedral plagioclase (poikilitic). In less schistose patches ~ 15% relict divine to replaced by serpentine visible fine grained to coarse grained dark augite? visible. From 39.65 to 41.50 m intervals of chlorite - serpentine - quartz to chlorite - quartz - serpentine SCH. SCH-um to SCH-m. Rare quartz eye and greater % quartz sweats as deformed, discontinuous quartz veins. Contacts vary, dominantly 70 - 85 degrees tca, some 30 degrees tca. SCH highly ductilely deformed. <1% very fine grained, disseminated pyrite, oxidized.Trace epidote wisps to blebs. 39.65 m to 41.50 m trace up to 1% locally fine to medium grained, sub-euhedral magnetite. Contact metamorphism? from small BAS dyke / sill. Similar to BAS in EC16-75. 36.75 - 36.84 m larger foliaform quartz vein. Augen chlorite + minor host sch wisps within. 40 degrees tca upper contact, 30 degrees tca lower contact. Trace blebs anhedral pyrite. Trace biotite selvage. Trace wisps hematite.	carb	Tr	lim	Tr	Epidote - trace.		EPy		0.1				3
LS16-77	41.5	41.78	BAS		Black, very fine grained, plagioclase pheric, plagioclase , pyrite, olivine basalt. ~3% acicular plagioclase up to 2 mm in length. 0.5 - 1%, 1 mm pyrite, subhedral. Sharp, slightly irregular contacts at 80 - 70 degrees tca. Small chills at contacts. Moderately magnetic.	carb	Tr											
LS16-77	41.78	43.95	SCH-m	SCH-ptm	*Was logged as SCH-um? (41.78 - 42.34 m) Similar to 33.05 - 41.50 m, but increased FeOx + epidote from nearby fault breccia. Trace to locally 1% fine grained, sub-euhedral magnetite near contacts with BAS. Weak contact metamorphism. Alteration from fault iw weak to moderate. (42.34 - 43.30 m) FLT breccia; Patchy gouge up to 1 cm. Clasts are 1 - 20 mm, rolled (rounded - subrounded) to 12.67 m with sericite - limonite - illite matrix. Upper contact 60 degrees tca - 40 degrees tca slickenlined fractures with illite +/- chlorite + weak MnOx cut breccia. < 1 mm hematite + FeOx stringers in clasts +/- trace altered epidote. Past 12.67 m clasts are up to cobble to 43.15 m. MnOx moderate in gouge sections. <1% sub-euhedral pyrite, fine to medium grained, oxidized. Upper contact alteration is sharp with distinct drop in alteration int from strong to weak - moderate. Footwall alteration is more diffuse, with alteration gradually decreasing downhole. (43.30 - 43.95 m) Dark green - grey, ptygmatic, chlorite - serpentine +/- quartz SCH. (serpentine). Minor more felsic interval. ~1% sub-euhedral fine to medium grained, bright pyrite.	carb	Wk	lim	Wk	Epidote - weak, Carbonate - 2%.		EPy		0.1		Epy up to 1% locally.		3
LS16-77	43.95	51.11	SCH-m		Green - grey, locally ptygmatic, locally crenulated. Chlorite - quartz +/- serpentine SCH. Minor SCH-um intervals. Local ductile brecciation at 50.80 ~ 51 m --> small fault gouge at upper contact - 50 degrees tca. Limonite moderate to strong in gouge. Moderate epidote overprint breccia + chlorite with small, bleached quartz halos seen as blebs to fracture fill stringers. Dominantly 60 degrees tca. Occasional felsic intervals usually fairly thin < 10 cm. Banding and laminations in main SCH-m. ~1% sub-euhedral pyrite. Variable overall 1%. Local S3 70 - 85 degrees tca.	carb	Tr	lim	Tr	Epidote - trace.		EPy		1				10
LS16-77	51.11	64.01	SCH-m		*Was logged as SCH-um. Dark green - grey, ptygmatic, locally crenulated. Chlorite - serpentine +/- quartz SCH. Minor felsic interval similar to 43.30 - 43.95 m. < 1% pyrite, local 1%, fine grained - local coarse grained, sub-euhedral. 57.30 - 58.34 m increase in felsic interval + boudined Quartz +/- carbonate veins. ~7% leached pits + vugs within veins + proximal.	carb	Tr	lim	Tr	Epidote - trace.		EPy		0.1				6
EC16-78	2.4	3.05	OVB		Broken and rubbled core with minor quartz vein material. Core is oxidized, chlorite - quartz schist; predominantly intermediate to mafic (SCH-i; but border line); no sulphides noted. Highlight: (2.91 - 3.05 m) Broken quartz core up to 7 cm long.	lim	Mod		Limonite - moderate to strong.									

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-78	3.05	25.93	SCH-i		brown with moderately ductile (wavy - warped). Light grey to off white flattish to lenticular quartz sweats --> typically 30 - 60% of this lithology. They average ~4 mm thick but can range up to 3 cm thick and appear more lens - like in profile. The quartz sweats are crackle - fractured locally particularly in flex folds. The light grey quartz sweats are interleaved with predominantly chlorite and range in color from a very dark green grey (Fe - chlorite) to moderate green - grey to a coarser grained sericite (shiny gold - beige). The shear component is minor. These micas make up the remainder percentages. Foliation is variable locally steep but for the most part at very shallow angles to the fold axis (TCA). 0 - 20 degrees TCA is common. Sulphides are minute and rare. Very fine grained specs in very trace amounts - typically isolate - in fractures within a quartz sweat or sometimes in the matrix. In some cases they are associated with WRI blemishes as well. They appear anhedral. Limonite +/- tiny (< 1 mm) spots of black pyrolusite (MnO2) are noted along folae planes. Highlights: (6.35 - 6.80 m) Increase in off white quartz sweats in a slightly more deformed sub-interval. Noted dark green - grey clots / spots/ dots; subhedral chlorite + very trace minute anhedral pyrite. Sweats have a 'banded' look. Lower contact with fault breccia is sheared at 25 degrees tca. chips; typically 5 x 6 m in size (25%) + mulched - sheared chl sch clasts (65%) - dark grey which makes up some of the matrix as well. (26.30 - 26.86 m) Dark brown - grey chlorite rich shear planes at very low angles tca. Shear - streaky texture; material is broken down. Chl (qtz) SCH. Shear angle typically 5 degrees tca. (26.86 - 35.09 m) - was originally logged as SCH-i) Chl - qtz SCH. Very similar to (3.05 - 25.93 m). Some local sub-intervals of increased quartz lenses and sweats --> they are typically blemished with WRI, locally crackle - fracture, deformed (warped, wavy or discontinuous lenses). UC with FLT is a low angle shear with the FLT breccia @ 30 degrees tca. Strongly developed S3 crenulation planes parallel to shear; one every cm for about 40 cm passed UC. LC at 30 degrees tca gradational with lower SCH-m; noted S3 development at 5 degrees tca into more chl - rich FW rock (SCH-m). Py is very rare and occurs as seldom vfg, anh grains - unevenly distributed in the chl and/ or qtz sweats. Noted fair to mod cal alt along cleavage planes at bottom of interval. Highlight: (28.30 - 28.59) Relatively large (10 x 5 cm) 'dirty' mottled grey - white, fracture qtz lens - foliaform. Pitted along fracture with black MnO2 and lesser lim stain --> 'type sample' of a foliaform dirty qtz lens. No sx visible.	lim	Mod			Limonite - moderate to strong		APy	0.1			40	
EC16-78	25.93	35.09	SCH-m		(35.09 - 38.38 m) Chl rich (qtz) SCH. Dark greenish grey, finely foliated - wavy; locally very ductile and folded foliation. Decrease in size and % of qtz sweats (light grey). Qtz sweats are typically 3 - 5 mm thick (range 1 mm - 2 mm lenses); local class III folding in the 3 - 5 mm thick sweats. Composition is mg chl with interleaved qtz --> as mostly sweats 5 - 20%. Pervasive cal alt is strong to intense. Lim - cal specs are rare; py even more rare and vfg anh. S3 development is weak and particular to the UC area - very low angle tca. LC is gradational @ 25 degrees tca with the lower SCH-i.	carb	Wk	lim	Mod	Carbonate - weak to fair, Limonite - moderate to strong.		APy	0.1			30	
EC16-78	35.09	38.38	SCH-m		oxidized with rust colour; even planar foliation with fine chl (shear foliation) with local ductile folding between planes (S3??). The planar foliation is uniform; averaging 5 - 7 mm apart and parallel to each other @ 40 degrees tca. Light grey subhedral porphyroblasts / phenocrysts are relic porphyry textures --> (feldspar --> altering to calcite. These grains average 4 mm across and are 7-10 % of the rock mass; there are lesser smaller blue - grey quartz grains / porphyroblasts. These are relic textures of possibly a hypabyssal dacite. Very rare an grains of py; rare small discontinuous qtz sweats. (40.77 - 49.20 m was originally logged as SCH-m / SCH-i) - Cal altered qtz - chl SCH with 2% blue qtz eyes and variable qtz sweats. Highly variable interval in terms of colour and qtz sweat composition with colors of greenish grey being prevalent +/- local rust along select folae. Lighter off white - light grey subintervals occur with increasing %age of qtz sweats which are up to 70% but more typically 10 - 50% - highly variable. Also locally where % of qtz sweats is up to 70% is black fine folae fillings of chl + graphite. Basic composition is a chl - qtz SCH with noted fine to medium grain blue - grey quartz porphyroblasts (1 - 2%) - not as defined as (38.38 - 40.77m.). Second half of interval reveals very strong class 3 - isoclinal deformation --> parasitic style folds (M) generally at moderate to steep angle tca. Matrix is calcareous possibly Tan fine grained homogeneous Sericite - quartz SCH. Tan - beige, fine grained, planar foliated, homogeneous unit. Foliation is weak and is 40 degrees tca at upper contact and steepens to 80 degrees tca at E.O.H. Trace epidote at upper contact and minor irregular fine fractures with chlorite - calcite +/- rust specs (pyrite --> limonite; very fine grained.) fracture fill. The general character of this unit is fine grained and weak foliation. E.O.H.	carb	Str	lim	Wk	Limonite - fair to weak.		APy	0.1	EPy	0.1	Local Epy and Apy.	0.1
EC16-78	49.2	50.29	SCH-f			carb	Wk	lim	Tr	Carbonate - weak to fair.		APy	0.1				0.1
EC16-79	3.4	3.5	OVB														
EC16-79	3.5	9.08	SCH-i		** Possible a SCH-m but appears to be lighter in color and higher quartz content. Could be a bleached SCH-m.												
EC16-79	9.08	9.25	QV		QV - foliaform? large quartz sweat - broken pieces.												
EC16-79	9.25	10.35	SCH-i														
EC16-79	10.35	10.54	QV		Foliaform, 2 relatively large foliaform quartz sweats/ lens; side by side with 3-4 mm of SCH-i in between.												
EC16-79	10.54	16.04	SCH-m		** Previously logged as SCH-i; but appears to be getting darker and has less quartz content.												
EC16-79	16.04	16.25	QV		Foliaform, relatively large mottled and crackle fractured quartz lens.												
EC16-79	16.25	23.02	SCH-m		** Previously logged as SCH-i;												
EC16-79	23.02	23.38	QV		Foliaform with shear gouge. Milky white, fractured foliaform quartz lens (23.16 - 23.32 m) on the foot wall of a sharp shear at 23.10 - at 70 degrees tca. The gouge is oxidized orange - rust clay and 1/2 cm thick.												
EC16-79	23.38	27.31	SCH-m		** Previously logged as SCH-i.												
EC16-79	27.31	27.7	QV		QV breccia. Clast supported, sheared fault quartz vein breccia clasts: sub rounded to angular milky white quartz; average 3 x 2 cm; range from 1 x 1 mm to (7 x 4 cm). All milky white - some rare assoc pyrite --> limonite along clast margins. Matrix is sheared chl. and minor orange rust clay gouge. Noted wh calcite ff - ble stage. undetermined foliaform or x-cutting quartz.												
EC16-79	27.7	30.69	SCH-m		Previously logged as a SCH-i up to 28.70 m.												
EC16-79	30.69	30.9	QV		Crackle fractured - foliaform. Relatively large foliaform quartz with a broken LC.												
EC16-79	30.9	34.73	SCH-m														
EC16-79	34.73	44.2	SCH-f		Noted 1-2% fine white specs - calcareous. Interpreted to be plagioclase --> clacite alteration in perhaps a meta - rhyolite or meta rhyo-dacite. A weak hematite stain from ~ 43.25 m to the LC with the SCH-m.												
EC16-79	44.2	50.29	SCH-m		Dark grey; chlorite rich.												
EC16-80	2.7	2.8	OVB		Mud + gravel. Minor core chips.												
EC16-80	2.8	6.25	SCH-i		Brown - green, well foliated, compositional banded, sericite - quartz - chlorite to sericite - chlorite - quartz SCH. Strong oxidization and rubble core. Patchy clay. Minor boudins of quartz rich bands. Patchy leached pits with limonite. Moderate to strong clay alteration --> illite. Minor MnOx on fracture. Trace oxidized, fine to medium grained pyrite. Local SCH-m (chlorite - sericite - quartz). Minor yellow staining at 4.80 m near quartz vein jarosite?	lim	Mod			Clay alteration - moderate to strong.		APy	0.1			8	
EC16-80	6.25	6.65	BAS		Brown to orange - brown, strongly oxidized, strongly clay altered, fine grained, weakly plagioclase pheric basalt dyke. Fractured + rubbly. Patchy clay along upper contact + fractures. Gouge and weathery. Fracture surfaces strong MnOx. Trace ahite?? greasy clay. Fe 1-2 mm plagioclase phenocrysts, ~15% oxidized fine grained, rounded crystals, and trace cubic oxidized pyrite. In less FeOx ???? greenish tinge ???? Upper contact 33 degrees tca. Clay altered + patchy weathered away. Lower contact rubble.	lim	Mod			Clay alteration - 40%; Limonite 30%.		EPy	0.1				
EC16-80	6.65	10.3	SCH-i		Similar to 2.80 - 6.25 m. Sericite - quartz - chlorite to sericite - chlorite - quartz. Brown tan to brown - green SCH. Local more chlorite rich bands. Weak greasy clay alteration (illite?). SCH-m? Borderline?												
EC16-80	10.3	21.8	QAS		Details taken from original log (6.90 - 21.80 m - Continuation of 6.65 - 6.90 m, but less FeOx + more competent core. Brown - green to brown - tan, banded to laminated SCH. Local SCH-m at 9.40 ~ 9.70 m, 30 degrees tca, upper contact? Lower contact gradational. 10.30 m to end of interval - fine grained, rounded blue quartz eyes ~ 1%. Some from exsolution textures. 10.60 - 10.73 m possibly small feldspar porph dyke. Core is more siliceous + foliation less pronounced. In less foliated sections unit is quartz + feldspars dominant with ~ 20% chloritized mafics (hornblende + biotite) ~2% quartz eyes, 1% blue fine grained, ~1% white and fine to medium grained. Feldspar + quartz are difficult to visually separate. Feldspar + quartz? Increased FeOx + rubble from 13.40 - 14.45 m with minor gouge + limonite + Mn blebby. 30 degrees tca fault. Pyrite is fine to medium grained, oxidized, disseminated + sub-euhedral. Trace above ~ 15.40 m, increasing below ~ 15.40 m to 1%, local 3% medium grained, cubic to coarse grained cubic (up to 4 mm). Near lower contact minor vein breccia with strong limonite + clay fill. Taper?? from 1 cm to hairline. 8 degrees tca. Coarse grained, euhedral, oxidized pyrite in host near breccia weak bleached sericite halos. Gouge with rolled clasts at contact. Sericite - clay. 15 degrees tca. 0.5 cm width.	lim	Mod			Limonite - moderate to strong, Clay alteration strong.		EPy	0.1			5	
EC16-80	21.8	47.35	SCH-f		Minor Mn. Clay is tacky + sticky, pale --> montmorillonite? Host rock is wkly sheared with augens of qtz + mod compositional banding. Possibly sinistral. 25 - 30 degrees tca flting. Py vfg to fg, cubic + strongly oxi. Predominantly oxi. (22.86 - 43.70 m) Green - tan, fg, wkly laminated, locally wkly foliated to homogenous, fg ser - qtz +/- chl SCH. UC (in flt at 21.80 m) at 15 degrees tca. Protolith possibly fspar porphyry. Relict fspar phenocrysts with rolled porphyroclastic appearance. Pressure shadows. Minor exsolution texture in fspars. Schistosity is variable, weakest at center of unit. Some plag still lath-like at center. ~5% fg to mg phenocrysts. Periodic white to patchy grey, occasional vuggy, - 8 cm qvs cutting foliation. These veins are cut by leached, lim stringers +/- oxi py with up to 1 mm ser halos. The larger QV's are high angle tca. Lim stringers are lower angle, ranging from 20 - 35 degrees tca. Frequency of lim stringers increases down hole, from 6/ m up to 20 / m, to 38.10 m, then they decrease again to ~ 6 / m. Sheeted to occasional conjugate (sketch in log). From 25 - 28 m, +36.5 - 43.70 m increase in boudined relict qtz veins. Tr relict epi with veins. Leached vugs with lim + Mn +/- hem. 40.60 m trace yellow tinge. Jarosite? Approaching lower flt degree of foliation increases + local weak shear. Appears sinistral. Py fg to mg, oxi, cubic, disseminated clusters + elongated along fabric. ~2% with some variability. Locally up to 3%, disseminated. MnOx on fractures + with some leached strigers. Trace hem. *28.10 flt with gouge ~ 1 cm, 20 degrees tca. HW is large quartz vein. *25.95 - 26.9 m - int of similar unit as 6.90 - 21.80 m? Unit is well fol, with ~30% boudined qtz veins + qtz sweats, strong ser,	lim	Wk					EPy	0.1	APy	0.1		20
EC16-80	47.35	54.6	SCH-i		*was previously logged as SCH-m (47.35 - 52.38 m) Green tan. Moderate - strongly foliation, weakly compositional banded chlorite - sericite - quartz SCH. Local weak crenulation S3 20 degrees tca. Where less foliated looks to have igneous texture. ~30 % mafic. Dominantly feldspar. Diorite? protolith? Perhaps SCH-i?. <1% oxidized pyrite, disseminated. (52.38 - 53.27 m) Green - tan, fine grained, dominant. Homogenous. Chlorite - sericite - quartz SCH. Dyke? More strongly meta (metamorphosed?) 1 - 2% cubic, oxidized pyrite. Trace actual self? left. Local 15% at 53.20 m. Strong FeOx staining +/- banding. Pyrite is along foliation + fine to coarse grained. 45 degrees tca poorly deformed upper contact. Lower contact is 65 degrees tca. Moderate deformation. ~1% limonite alteration leached relict pyrite. (53.27 - 54.60 m) Similar to 47.35 - 52.38 m. 2% oxidized to limonite pyrite. Sub-euhedral. Weak local crenulation at 10 degrees tca. 1% limonite altered pyrite.	lim	Mod			Clay - weak to moderate.		EPy	0.1			10	
EC16-80	54.6	64	SCH-f		Similar to 22.86 - 43.70 m, but more visible quartz. ~60% quartz. ~40% feldspars, 5 - 7% of which are fine to medium grained, anhedral to subhedral phenocrysts --> porphyroblasts. Trace twining visible relict plagioclase phenocrysts. Weak pressure shadows. Occasional poikilitic with quartz oikocrysts? Upper contact 10 degrees tca. Wobbly. Small fault at 56.29 - 56.39 m. Gouge at 70 degrees tca. ~ 5 leached limonite stringers/ veins. Slightly less QV than 22.86 - 43.70 m. ~2% leached and limonite altered pyrite in foliation. Elongated limonite along foliation occasional.	lim	Tr					EPy	0.1	APy	0.1		5

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
EC16-80	64	65.75	BAS		Same as 6.25 - 6.65 m. Strongly oxidized, brown to very weak green - brown, fine grained, weakly plagioclase pheric, plagioclase - pyx? +/- olivene? Oxidized, very fine grained to fine grained stubbly to rounded mineral. Strong alteration makes mineral identification difficult, plagioclase phenocrysts are elongate laths. Ca - rich end member. Rubble + strong clay alteration (illite?) + minor chlorite - sericite. Upper and lower contacts 20 degrees tca. Moderate gouge in lower half. Possibly following same orientation at contacts.	lim	Str			Clay alteration - extreme.							
EC16-80	65.75	78.8	SCH-f		Same as 54.60 - 64.0 m, but increase in larger QV's. Patchy rubble sections with minor oxidized gouge + slickenlines. MnOx on fracture surfaces. Local S3 at ~ 69 m. 20 degrees tca. ~2% leached + limonite pyrite. Faults at: 62 m, 69.8m, 71.5 m, 73 m, 73.6 m, 74.7 m, 77 m. Dominant 10 - 20 degrees tca. Occasional 30 - 35 degrees tca cutting 10 - 20 degrees tca fault. Degree of schistosity and foliation varies. Local ductile. Deformed near strxs??? Trace epidote in some x-cutting stringers +/- chlorite. < 1/m. 10 - 20 degrees tca. *foliaform quartz veins in all SCH-f for this hole perhaps earlier phase of the higher angle x-cutting quartz? 3 phases?	lim	Wk			Epidote - trace		EPy	0.1	APy	0.1		5
EC16-80	78.8	79.1	QV		Fault with 15 cm, 25 degrees tca + 15 degrees tca QV. Fault is at vein. Coarse grained - pegmatic. White quartz - sub-angular to rounded with hazy boundaries intergrown with "matrix" of less opaque grey quartz. White "clasts" have weak to moderate laminae of grey quartz. Gouge at either end of vein. -> limonite + clay. MnOx on fractures + vein. Vuggy with coarse grained coarse grained euhedral quartz. Minor leached stringers with yellowish white. Clay and limonite + Mn. Well defined contacts. (79.10 - 90.90 m) Continuation of 64.75 - 78.80 m. Increased limonite blebs in foliation ~ oxidized pyrite? ~5%, local 10%. Patchy limonite + clay gouge. < 1cm. Core is fractured to rubbly. Commonly fractured along foliation Mn dendritic on fractures. Increased Mn. Faulting at 25 - 30 degrees tca dominant, cut or cubing??? 40 degrees tca. Faulting increasing down hole. 87.40 - 89.40 m increase gouge + fractures. 20 + 40 degrees tca. Limonite + tacky, pale . Increase in limonite stringers down hole ~12 / m. ~5% limonite altered pyrite. (90.90 - 91.70 m) FLT - 20 degrees tca gouge + rubble. Strong limonite - sericite - tacky white to yellow clay. 20 - 30 degrees tca. Rolled limonite + Mn relict pyrite. 15 degrees tca sericite + clay gouge at end of interval ~ 4 mm width. 91.2 - 91.70 m weakly brecciated appearance. Interval clay alteration: "rotted" core. (91.70 - 94.00 m) Same as 79.10 - 90.90 m. Lower contact at 55 degrees tca with weak chill + quartz vein at contact. Quartz vein is weakly boudined. Strong oxidized pyrite, sub-euhedral near contact in SCHm + SCH-f? Local ductile deformation. S3 local, 10 - 20 degrees tca. 92.10 - 92.50 m increase in foliation discontinuous quartz veins. Faults along 10, 20 + 45 degrees tca. < 3 mm widths. Gouge. ~1% limonite altered pyrite.	lim	Mod			Epidote - trace		APy	0.1			Oxidized.	
EC16-80	79.1	94	SCH-f		washed out looking locally. Flted and fractured core. Patchy gouge - 20 degrees tca. Strong limonite in flts + MnOx. Borderline SCH-i? Maybe same as SCH-i at top of hole? ~ 2% disseminated + blebby lim altered py, an to subhedral. (99.0 - 102.11 m) FLT - Lim gouge mod to str MnOx, rubble + "rotted" core. Goethite? Host rock is same as 94.00 - 99.00 m. Illite? clay alt. Flting looks to be predominantly 30 degrees tca + 10 degrees tca. Small intervals of SCH-f strongly flted + wkly sheared. ~2% lim oxi + leached py pits. (102.11 - 109.10) - *Was previously logged as SCH-m? Continuation of 94.0 - 99.0 m. Fractured core. Patchy small flts with gouge. Lim - MnOx. Wkly. ~2% py gone to lim. Flts 10 - 30 degrees tca. Borderline SCH-i. 108 - 108.20 slightly larger flt. 30 degrees tca. (109.10 - 129.54 m) *Was previously logged as SCH-m? Grey - green to grey - brown, variably foliated (protolith looks to be dio to granodio SCH is possibly SCH-il), ser - chl - qtz SCH. In less fol sections looks to have ser texture, with ~1% larger mega crystic (~10 mm) hbl, sub-euhedral. Py is occasional replacing larger hbl, (cg py earlier in hole, and in other holes maybe py rep. hbl in similar unit). FeOx and overall alt. decreases down hole. Patches with tr primary bio + hbl. Most has gone to chl. Rare local cren. S3 -> 15 degrees tca. Shearing, wk to mod, at 120 - 120.7 m. Variable angle from 30 to 10 to 20 degrees tca. Possibly dextral. 109 - 114.5 m Quartz vein in rubbly core. Cut by Fe carbonate stockwork. Dark grey fractured quartz vein, pitted (weathered carbonate?) + cut by limonite and Fe carbonate stockworks. Irregular wall rock fragments -> bleached.	lim	Mod			EPy	0.1	APy	0.1			4	
EC16-80	94	129.54	SCH-i				Str			Clay - moderate.		APy	0.1				15
DM16-01	3.65	3.86	QV														
DM16-01	3.86	17	SCH-m		Green well foliated quartz - chlorite schist, with foliation parallel quartz + carbonate veins ~ 5%. Oxidized pyrite, fine grained, disseminated throughout, minor fresh clots associated with foliaform quartz veins. Upper ~10 m lighter / weathered. Local swelling clay on gougy fractures. Quartzose foline with patchy oxidized carbonate. Lower contact with quartz vein gougy.	carb	Wk	lim	Mod			APy	0.5				5
DM16-01	17	17.45	QV		Quartz vein with minor galena and pyrite associated with dolomite + Fe carbonate + limonite stockwork cutting. Wall rock fragments -> sericite + carbonate.							EPy	0.5	Gn	0.5		
DM16-01	17.45	26.9	SCH-m		Green foliated locally deformed / foliated Quartz - chlorite - carbonate SCHIST, carbonate as ~3% blebs 2 mm within foliation with 5% quartz foliform veins with minor carbonate. Foliation deformed? (def'd) + disrupted oxidization at 20 m. Pyrite fresh to totally oxidized. Blebs ~ 2 mm within foliation and as larger clots locally. Cut by 1 - 2 /m fine Fe - carbonate stringers with oxidation halos.	carb	Mod	lim	Wk	Carbonate - weak to moderate		Gn	0.5				5
DM16-01	26.9	34.96	SCH-i		(26.90 - 32.90 m) Pale grey green quartz - chlorite SCHIST, foliated + deformed with locally gougy matrix. 3% foliform quartz veins 10% Fe - carbonate - or pits with limonite + brown oxide (pyrolusite?). Quartz rich lenses / foliae 5 mm with chlorite rich inter layers. Pyrite oxidized, euhedral 0.5%, fine to coarse grained, coarser within gougy intervals. Coarse grained at 28.4 m. Irregular carbonate stringers 2 / m throughout. (32.90 - 34.96 m) Orange - grey quartz - chlorite SCHIST with 3% pervasive discontinuous stockwork of FeOx + clay. Foliform quartz veins, 1% brecciated + boudinaged, quartz - rich folia brecciated, locally (as upper contact) chlorite breccia / foliation is destroyed due to deformation. Minor clay gouge fractures. 34.6 - 34.96: strongly oxidized pitted hanging wall zone.	carb	Mod	lim	Mod	Limonite - weak to moderate		EPy	0.5				3
DM16-01	34.96	35.15	QV		Quartz vein, with 1% galena. Uphole contact quartz stockwork breccaing vein, down hole contact gougy. Pitted along fractures - carbonate? Some from pyrite.	lim	Mod					Gn	1				
DM16-01	35.15	35.3	SCH-i		Light grey green gougy bleached quartz - sericite (chlorite?) SCHIST between two veins. Friable + incompetent. Fold in foliation. Quartz vein cut by stockwork of fine grained pale tan quartz, with 0.5% galena in clots with stockwork. Downhole oxidized including spongy limonitic quartz - oxidized pyrite pits?	lim	Mod					Gn	0.5				
DM16-01	35.8	50.29	SCH-m		(35.8 - 43.65 m) *Was logged as SCH-i previously. Tan green well foliated with 2 - 10 mm Quartz - rich + chlorite - rich layers, carbonate alteration as 5 - 10% clots disseminated through some within more felsic layers, pyrite oxidized, fine grained within foliation and associated with veins. Carbonate alteration pronounced in foot wall of QV above, 10 - 15% fine pervasive clots + within matrix. Downhole clots more spread out, except in vein halos. At 42.33 m: oxidized pyrite in 5 mm clots near quartz fracture fil non planar 3 mm wide. 43 - 43.65 m: pervasive oxidation + jigsaw breccia texture. (43.65 - 50.29 m) FLT BXA - dark green chloritic breccia, sub-rounded altered clasts in fine grained isotropic matrix, upper and lower 2 m somewhat intact chlorite quartz schist brecciated + deformed disrupting foliation. Gougy fractures throughout, pervasive carbonate in fragments. Patchy oxidized staining. At 44 m: discontinuous quartz - carbonate veinlets / fragments.	carb	Str	lim	Mod	Carbonate - moderate to stonge. Limonite - weak to moderate.		EPy	1	APy	0.1		
DM16-01	50.29	60.8	SCH-m		(50.29 - 56.20 m) Dark green Quartz - chlorite - carbonate SCHIST, foliation defined by 1 mm quartz - carbonate bands with interstitial chlorite rich layers. White quartz - carbonate layers pinch and swell locally folded + boudinaged. Hematitic stained fractures 2 / m, fine grained hematite within matrix + along edges of quartz - carbonate bands ~1%. Trace fresh pyrinte, fine grained. 51.6 - 52.3 m: foliation folded and disrupted. 53.4 - 57.85 m: Foliation folded and deformed, local breccia + hematitic fractures. (56.20 - 60.80 m) FLT BX - Green foliated but deformed to isotropic breccia upper and lower ~1 m more intact with breccia core. Breccia chlorite + quartz fine grained matrix supported with sub angular mafic schist + quartz - rich clasts. Intact foliation in hanging wall folded. At 58 m: carbonate sweat with epidote. 58.5 - 59.44: Fault gouge with lost core.	carb	Mod	hem	Wk	Carbonate - weak to moderate.		EPy	0.1				
DM16-01	60.8	70.15	SCH-i		*Was logged previously as a SCH-f but could be a altered SCH-m?? (60.80 - 63.60 m) Tan grey - green, rubbly / faulted quartz - muscovite - pyrite SCHIST; Fine grained with subtle foliation (cleavage). Pyrite 2%, coarse grained, fractured and oxidized, subhedral. Gougy fractures 5 / m. Cut by finer stockwork of carbonate stringers. (63.60 - 70.15 m) FLT BX - Olive green matrix supported breccia. Fine grained soft olive matrix with sub mm - 5 mm sub-rounded quartz + lithic fragments ad larger 2 - 10 cm mafic schist fragments with wispy / cuspatte?? contacts. Lithic fragments are breccias too - re-activated structure. Lower + upper contacts gougy with swelling clay. Carbonate throughout in fragments and matrix. No veins/ stockwork.	carb	Mod			Carbonate - moderate to strong.		APy	2				
DM16-01	70.15	75.4	SCH-m		(70.15 - 72.48 m) Grey green punky / friable + soft. Chlorite - talc - quartz SCHIST, 3 - 5% boudinaged quartz sweats. Fresh pyrite in matrix, trace fine grained. Matrix fine grained. Foliation subtle. 71.40 - 72.00 m: gougy and brecciated with carbonate stringers, quartz fragments ~ 15%. (72.48 - 75.40 m) FLT BX Greenish tan rusty matrix - supported BRECCIA. Fine grained soft matrix with 2 - 5 mm quartz - carbonate + lithic fragments. Pervasive carbonate in matrix fragments + stockwork stringers. Minor pyrolusite stringers. Hematite fractures downhole. Gouge at 74 - 74.10 m.	carb	Mod			Carbonate - moderate to strong		APy	0.5				3
DM16-01	75.4	82.3	SCH-m		(75.40 - 81.30 m) Green and maroon, Chlorite + quartz - non-foliated, massive + brecciated, metabasalt? Fine grained matrix with 2 mm hematite clots but by 10 / m hematitic stockwork fractures, 3 / m clay / gougy fractures + discontinuous carbonate stockworks. Carbonate through matrix and around quartz - carbonate fragments? 79 - 79.3 m, lower 1 m strong hematitic fractures hematite breccia. (81.30 - 82.15 m) FLT BX Grey tan pyritic BRECCIA, fragments quartz + felsic schist fragment - supported with gougy fracture matrix. Pyrite 3% clots of subhedral, fresh crystals with rare 1 cm lenses schist fragments strongly carbonate altered.	carb	Mod			Carbonate - moderate to strong		APy	3			APy - 3% locally.	
DM16-01	82.3	83.2	SCH-i		(82.15 - 82.30 m) FLT - sandy tan gouge included caved material. (82.30 - 82.8 m) *Was previously logged as SCH-f but could be a altered SCH-m. Tan grey quartz - muscovite? - chlorite SCHIST, fine grained with thin foliation (quartz + partins) fine grained pyrite fresh throughout 1%. Minor foliation parallel discontinuous quartz lenses, cut by stockwork of carbonate + clay fracture fill. (82.8 - 83.2 m) FLT - oxidized clay fault gouge with angular quartz - schist fragments.	carb	Mod			Carbonate weak to moderate.		APy	1				

ID	From	To	Lithology	Texture	Description	Alteration	Alteration Intensity	Alteration 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz	
			(83.20 - 88.20 m) Dark green fold + folded, Quartz - chlorite - carbonate SCHIST, fine grained with closely spaced quartz vs chlorite foliation slightly deformed and folded throughout, carbonate in matrix + along 6 / m carbonate stringers + minor stockworks. Trace fine grained, fresh pyrite. 85.62 - 85.75 m: oxidized slips with gouge 40 degrees tca, brecciated grey quartz vein fragments, minor hematite. 86.13 - 86.37 m: 20 degrees tca fractured zone, quartz fragments with chlorite + carbonate matrix, maroon hematite staining. Hematitic clay fracture zones at 86.80 m. 86.39 - 87.09 m: Fine grained oxidized felsic schist interval with 4% pyrite, 2 mm, subhedral clots ~ oxidized rims cut by clot + FeOx + clay stockwork. (88.20 - 94.35 m) Dark green + maroon, Chlorite + quartz SCHIST, fine grained with x-cutting hematitic fractures throughout. 2 mm hematite + magnetite crystals, subhedral, disseminated within foliation. Carbonate as thin grey wisps / foliation and dolomite + quartz sweats. Cut by carbonate stringers discontinuous 5 / m. 91.8 - 92.1: jigsaw breccia, weakly foliated mafic with magnetite cut by hematite fractures / stockwork. Lower most 1 m oxidized along tan clay stringers. E.O.H.		carb	Mod		Carbonate - moderate to strong.		APy		0.1 Mag		3			
DM16-02	5.9	9.29	SCH-i		Light grey quartz - rich mica SCHIST bleached. Light grey with rust along foliation and fractures. Strongly foliated compositional layers of light grey --> off white equigranular medium grained quartz (65%) + micaceous streaky layers of sericite - muscovite / altered chlorite. 5 - 10 % brown rusty streaky blotches; average 8 x 3 mm in size comprise ankerite - limonite +/- fine grained, euhedral pyrite occasionally. These rusty streaky blotches are pervasive and appear to be an alteration which has fitted into this quartz - rich lithology also altering any dark chlorite or biotite to a sericite - muscovite. Unit is more permeable and prone to brittle fracture under deformation relative to the more mafic chlorite - rich mafic schist.	carb	Str	lim	Wk		Carbonate - f to st, Limonite - f		EPy		0.1 APy	0.1	
DM16-02	9.29	15.87	SCH-m		Dark greenish grey chlorite SCHIST. Dark greenish grey with rust along foliation and across on fracture. Strongly foliated with compositional layering primarily of dark green grey chlorite +/- altered (sericite - muscovite) making up 60 - 90% of the mineralogy. The other main mineral is grey quartz - interlocking quartz grains; as 'sweats' between the mica and forming commonly discontinuous lenses; boudins; and streaky bands locally. Where there is an increase of chlorite there tends to be more pronounced deformation of the folae. Anhedral pyrite noted as blobs or irregular small (3 mm across) masses. This interval is non - magnetic; up to 10% spotty black pyrolusite on folae surfaces.	carb	Str	lim	Mod			APy		0.1		10	
DM16-02	15.87	16.16	SCH-i		Pale yellow - rust to light grey quartz - rich mica SCHIST. Pale mustard yellow - rust to light grey equigranular fine grained quartz (60 - 75%) + dark greenish grey chlorite (sericite - muscovite), banded to streaky, planar foliated schist. Very fine grained, anhedral, disseminated pyrite - rare.	lim	Wk					APy		0.1			
DM16-02	16.16	17.26	SCH-m		Dark greenish grey chlorite SCHIST. Very dark greenish - grey, uniform, strongly planar foliated chlorite schist. Lower contact is gradational with quartz rich schist. Rare, trace anhedral pyrite as very fine (0.5 x 1 mm) lenses between folae. Lower contact is gradational at 55 degrees tca.	carb	Wk	lim	Wk		Limonite - trace to weak					6	
DM16-02	17.26	20.9	SCH-i		Quartz - rich SCHIST; compositional banding of predominantly light grey (70 - 90%) fine to medium grained, equigranular quartz in bands - typically 1 cm wide and locally cracked or broken - brittle deformation. In addition to the equigranular - banded quartz; there is massive milky quartz as 'sweats' - these are rare. The balance of the mineralogy are the dark grey to black fine (1 mm) streaks between the wide quartz bands of chlorite - altered chlorite - sericite / muscovite - biotite + pyrolusite (10 - 30%). Fine grain, disseminated pyrite (anhedral) is rare. Minor slip - gouge plane noted about brittle deformation. This unit is very similar to (5.20 - 9.29 m) but lesser ankerite alteration, not as leached; less pyrite. Perhaps its parental rocks are a dirty or silty quartz sandstone. Lower contact gradational and parallel to foliation --> 55 degrees tca. 20.70 m - 7 mm diameter anhedral pyrite blob.	carb	Tr	lim	Wk			APy		0.1		1	
DM16-02	20.9	22	SCH-m		Ankerite altered chlorite SCHIST. Very similar to (16.16 - 17.26 m) but relatively more ankerite alteration, oxidation and % foliaform quartz sweats and medium grained isolated overprinting cubes of pyrite. Ankeritic alteration (+/- pyrite) increases toward lower contact with deformed quartz rich SCH (21.70 - 22.0 m).	carb	Str	lim	Wk			EPy		1		10	
DM16-02	22	24.38	SCH-i		(22.00 - 22.27 m) Strongly deformed quartz rich mica SCHIST. Poly deformed class 2 folding preceding fault below. Folds are sheared on noses or edge of limbs. Lower contact at 80 degrees tca. This interval is very similar to (17.26 - 20.90 m). (22.27 - 23.52 m) FLT - Dark grey contoured greasy chip size (4 cm across average) SCHIST. Broken + 10% dark grey rusty gouge + very deformed pieces of dark chlorite SCH core at hanging wall. (23.52 - 24.38 m) Quartz rich mica SCHIST. Similar to (17.26 - 20.90 m) but relatively more ankerite altered (weak to fair) and more mica content giving the lithology a more streak texture. Lower contact gradational at 70 degrees tca.	carb	Mod	lim	Tr		Carbonate - trace to weak / fair to moderate to strong.	APy		0.1		7	
DM16-02	24.38	25.96	SCH-m		Chlorite SCHIST; Dark greenish - grey fine grained, predominantly very strong planar foliation chlorite - sericite - muscovite SCH with 5 - 10% black pyrolusite between folae.	carb	Wk	lim	Tr							3	
DM16-02	25.96	29.06	SCH-i		Quartz - rich mica schist; Moderate greenish grey, planar to lenticular foliation (locally where milky quartz (+/- dolomite) lenses occur). Mottled to streaky texture. 26.45 m - cross cutting stringer (calcite - ankerite).	carb	Wk	lim	Wk		Carbonate - fair.	APy		0.1		8	
DM16-02	29.06	39.2	SCH-m		Variable chlorite SCHIST. General description: Upper half of interval (29.06 - 33.82 m) is a "striped" chlorite quartz SCH with uniform fine 1 mm alternating dark chlorite - biotite - sericite / muscovite + pyrolusite ad light grey fine grained, equigranular quartz stripes. Generally uniform strong planar foliation. After crossing a large foliaform quartz sweat at 33.82 m; the texture changes to a mixed dark greenish grey chlorite SCH with local lenticular bright white dolomite (magnetite?) and other lenticular foliaform quartz dolomite lenses. Highlights of this interval include: (31.82 - 32.27 m) Deformed striped chlorite quartz SCH with blotchy patches of fine grained, anhedral pyrite in noses of small pocket class 1 folds; 7% pyrite. (33.82 - 34.02 m) QV + 1 spec of sti. (38.29 - 39.20 m) FLT BX - Mixed colours of grey crackled and sub - angular 3 - 4 cm clasts, pale yellow dolomite interstitial fill (partial); limonite - ankerite interstitial fill on hanging wall side; clast supported breccia. Upper contact at 70 degrees tca; lower contact at 80 degrees tca. Intense ankerite patch 6 cm long.	carb	Str	lim	Wk		Carbonate - strong to moderate to intense. Limonite - fair, trace, weak to moderate	APy		1		Pyrite - locally up to 7%.	1
DM16-02	39.2	45.56	SCH-m		(39.20 - 45.20 m) Chlorite SCH intermittently withankeritic alteration. Generally a dark green - grey, fine grain, chlorite SCH with sub-intervals of increased foliaform quartz (milky white grey and crackled) -brittly deformed associated with ankerite and rare euhedral pyrite. Highlighted sample descriptions: (40.66 - 41.60 m) Orange - rust colored sub-interval with elevated ankerite alteration; dense number of foliaform quartz sweats - crackled with cross cutting dolomite. The euhedral pyrite in between sweats are within ankerite alteration. (44.68 - 44.92 m) Orange rust colored sub-interval with elevated ankerite alteration; brittily broken quartz in this sub interval; trace disseminated pyrite, fine grained, euhedral. Disturbed sub interval. (45.20 - 45.56 m) FLT BX - rust orange FLT BX. Intense rusty orange fault breccia: matrix supported; clasts comprise: milky white quartz; chlorite SCH sub rounded clasts; gouge (60 - 70%) is very ankeritic with noted fine grained, euhedral, disseminated pyrite, cubes.	carb	Str	lim	Mod		Limonite ranges from weak to moderate to intense.	EPy		0.1 APy		0.1 Pyrite - locally up to 1%.	8
DM16-02	45.56	60.96	SCH-m		Generally planar foliation although locally deformed commonly associated with white calcite occupying bands in the folding. (51.44 - 51.60 m) White calcite veinlet with coarse crystalline stibnite. (51.60 - 60.94 m) Chlorite - carbonate SCHIST. General description is very similar to (45.56 - 51.44 m): dark green grey chlorite (dark stripes) are light grey calcite or carbonate and fine grained quartz grains. The carbonate component maybe as high as 20%. Unclear whether this is genetic or alteration - thin section work would tell. Where there is local deformation or folding white calcite appears as 'dewatering structure' orthogonal to folae. There is pyrite in trace amounts however a pyrite 'seam' or band (1 cm wide) of 7% disseminated, euhedral pyrite trains along folae within the band is obscured at 52.25 m. Between 56.34 and 57.27 m the unit becomes very calcareous and is very deformed into tight folds - this sub-interval is bound by 2 sharp slip planes. Highlight sample descriptions include: (52.16 - 52.36 m) Contains a 1 cm band of finely disseminated, pyrite (euhedral and anhedral) coincident with folae --> syngenetic? 7% pyrite within this 1 cm band.. (56.34 - 57.27 m): Upper contact (slip) at 40 degrees tca; lower contact (slip) at 30 degrees tca. off white, very deformed sub-interval with tight folding and increased calcite content. E.O.H.	carb	Str	lim	Tr			EPy		0.1 APy		0.1 Pyrite - locally up to 2%.	
DM16-03	3.05	4.57	OVB		Overburden comprising 90% reamed, rubbled white milky.						EPy	1					
DM16-03	4.57	8.9	SCH-m		(4.57 - 8.0 m) Greenish chlorite (quartz - feldspar - carbonate) SCHIST deformed space folae. (4.57 - 6.74 m) General Description - Two fone colored - dark green chlorite (+ lesser sericite - muscovite) and a light greenish - white, fine grained, equigranular quartz + feldspar. The dark assemblage is ~60%; the light assemblage ~ 40%. The texture is very characteristically intensely deformed folae with spaced slip folae - offsetting or further deforming the folae. The folded laminae are class 3. The overall texture is mottled. Local 2 mm isotropic biotite 'clots' overprint the mottled texture locally (5%); Rare, trace very fine grained pyrite. (61.71 - 8.00 m) Rusty and oxidized . SOS? (4.57 - 6.71 m) but lack carbonate; increasing medium grained, euhedral pyrite, particular to 20 cm above lower contact up to 2%. Lower contact broken. (8.00 - 8.18 m) QV - parallel planar fracture set - **Bad scan and can't make out words for this vein. (8.18 - 8.90 m) Greenish chlorite (quartz - feldspar) SCHIST oxidized. Very similar to sub-interval (6.71 - 8.00 m); noted fine and medium grained, limonite - pyrite in trace amounts. Core is broken. QV - core all broken; largest piece is 9 cm long. Milky white quartz. Very weak limonite +/- dendritic pyrolusite on fracture surfaces. 5 - 10 euhedral pyrite (cubic), fine grained crystals noted - contain dark limonite and being pseudomorph; 1 spec of galena (very fine grained). All sulphides within the white milky quartz.	carb	Mod	lim	Str		Limonite - trace to strong / intense. Carbonate - moderate locally.	EPy		0.1 APy		0.1 Epy - locally up to 1%.	
DM16-03	8.9	9.15	QV			lim	Tr				EPy		1 Gn		0.1		
DM16-03	9.15	10.22	SCH-m		(9.15 - 9.95 m) Greenish chlorite (quartz - feldspar) SCHIST oxidized. Broken core interval. SOS sub-interval (6.71 - 8.00 m); but not as deformed; planar strong foliation; no carbonate but rusty oxidized. (9.95 - 10.12 m) QV - core all broken; largest piece is 6 cm long. Milky white quartz - weak fractures with weak limonite and dark dendritic and patchy pyrolusite. No sulphides notes. (10.12 - 10.22 m) Greenish chlorite (quartz - feldspar) SCHIST decomposed. Small interval between QV's. Very decomposed, increase in altered chlorite + sericite - muscovite. ??? to the minor quartz - feldspar. Core broken up into large chips. No sulphies or carbonate; very greasy. Upper contact and lower contacts are broken. "Dome lode" QV mineralized (trace pyrite and galena). Snow white milky quartz - weakly fractured; very weak limonite stain on select irregular fractures. Note isolated medium grained crystal, euhedral pyrite and galena in massive quartz. also much finer euhedral cluster 'trains' along select fractures. Both pyrite and galena in trace amounts. Black fracture fill with galena / pyrite also associated with limonite +/- pyrolusite possibly (?) other very fine grained dark sulphides.	lim	Str		Limonite - moderate to strong		EPy		0.1				
DM16-03	10.22	11.75	QV		Greenish chlorite (quartz - feldspar) SCHIST. Very similar to interval (10.12 - 10.22 m); between 2 QV's and very broken with greasy chlorite (sericite - muscovite) surfaces. Surfaces also have 10 - 20%pyrolusite coatings as well.	lim	Tr				EPy		0.1 Gn		0.1		
DM16-03	11.75	11.92	SCH-m			lim	Str										

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
DM16-03	11.92	12.32	QV		QV mineralized (pyrite and galena). Snow - milky white, massive quartz; weakly fractured with very fine grained, euhedral pyrite + limonite / pyrolusite; 1 spec of galena noted. Upper contact and lower contact no intact.							EPy		0.1 Gn		0.1	
					(12.32 - 13.72 m) FLT - mixed; Greenish grey fault zone with 7 cm wide brown clay - micaceous - grit gouge at hanging wall contact (at 80 degrees tca); downhole from goug is broken core of altered chlorite SCH (no sulphides noted); further downhole to the FW (~13.50 - 15.72 m) is a very rusty slip - gouge lower contact at 55 degrees tca. Most of the core is broken, sheared and decomposed altered (oxidized) chlorite SCH. (13.72 - 16.42 m) Altered chlorite (quartz - feldspar) SCH (ankeritic alteration). Generally this unit appears to be the same as (4.57 - 8.00 m) but exhibiting 2 sub-intervals of alteration: (13.72 - 14.15 m) Distinctive spotted to moth-eaten texture of black mineral haloed in light grey areas overprinting the deformed folae of the chlorite - quartz / feldspar SCH. Strong carbonate --akerite alteration. Trace - 1% euhedral pyrite noted in matrix - very fine grained. (14.15 - 16.42 m) Very similar to (4.57 - 8.0 m) the difference is the strong to locally intense carbonate content - primarily ankerite; from 15.15 - 15.24 there is a grey haalo with the texture described above (13.72 - 14.15 m) - black, moth-eaten, spotted overprinting texture - the paled (greyish) halos are devoid of carbonate and are not rusty.	carb	Wk	lim	Mod	Limonite - fair to moderate; Carbonate - weak to fair to strong.	EPy		1		Epy - locally 1%.		
DM16-03	16.42	20.62	SCH-m		(16.42 - 17.68 m) FLT - mixed light brown - beige gouge + broken sheared decomposed, chlorite (quartz - feldspar) SCH (ankerite alteration) + ext carbonate (ankerike?) broken chips - most gouge on hanging wall side; 20% gouge overall; Upper contact and lower contact not in place - broken. (17.68 - 20.62 m) Intense ankeritic altered chlorite (quartz - feldspar) SCHIST. Dark rusty brown planar foliated extremely ankeritic chlorite (quartz - feldspar) SCH locally with overprinted moth-eaten spots (2 mm diameter) through much of this interval. Highlights: 17.80 m - conjugate set of grey quartz stringers. 18.40 m - irregular calcite stringers. 4 foliaform quartz sweats are in the interval (17.65 - 20.62 m); they range 1 - 3 cm; They are grey with dark grey - brown blemishes; The 3 cm one occurs at 19.67 m.	lim	Str				EPy		2		9		
DM16-03	20.62	20.86	QV		QV - minor dolomite - hybrid. Large foliaform quartz sweat. Milky white to grey, crackle fractured quartz with late stage cross-cutting pale yellow - brown ragged patch - fracture fill infill. The dolomite cross cuts quartz orthogonally as well as its selvage area and foliation. Dolomite is associated with trace fine grained, euhedral pyrite +/- limonite + ankerite.	lim	Wk				EPy		0.1				
DM16-03	20.86	22.48	SCH-m		Extreme ankeritic altered chlorite (quartz - feldspar) SCHIST. Deep rust - brown at hanging wall becoming less intense where by unmasking the rolic alternating quartz - feldspar rich and dark chlorite although this is also overprinted with the black spotted moth-eaten texture as well partially obscuring the original foliation. 2 cross cutting quartz stringers are in this interval; (21.05 m) Cross cutting quartz stringer. (21.48 m) cross cutting quartz stringer.	carb	Str	lim	Str	Carbonate as ankerite.						2	
DM16-03	22.48	22.7	QV		Milky massive white with light rust stain quartz; weak - moderate limonite stained fractures; quartz is weakly fractured. Numerous 2 - 3 mm sub-angular vugs along the foot wall of lower contact. 10 sub-euhedral isolated galena grains 1 - 6 mm where obscured in the massive quartz. (quartz - feldspar) schist; broken and deeply oxidized ; spotted black texture on fracture surfaces - pyrolusite. Crumbly oxidized chips of schist. 1% medium grained, euhedral pyrite - partly pseudomorph to limonite in matrix - disseminated. (23.06 - 24.66 m) Altered chlorite (quartz - feldspar) SCHIST locally spotted texture. Very similar to (4.57 - 8.00 m); compositional banding is approx: 60% dark micaceous layers of chlorite, muscovite - sericite with local spotted texture - pyrolusite spots or lighter inter-grain ankerite / carbonate - the black spotty (pyrolusite?) texture is more prevalent in the light bands of quartz - feldspar composition (~40%). *This unit could be coded SCH-i but for sake of consistency is labelled "SCH-m". The black spots have a 'moth-eaten' recessive texture and appear associated with some pyrite grains; they do not appear to be biotite - possibly pyrolusite. Upper and lower contacts are not intact; planar foliation at footwall of this interval towards lower contact reads 50 degrees tca. (24.66 - 25.30 m) FLT intensely oxidized. Rusty orange brown competent core with polymictic sub angular clasts: grey quartz, bleached quartz - feldspar - mica SCH, and oxidized SCH - clast supported. Matrix is limonite with ~1% anhedral / euhedral, fine grained, disseminated throughout clast and matrix. (25.30 - 26.24 m) Altered chlorite SCHIST decomposed. Dark green - grey streaky competent core for	lim	Str	carb	Wk	Limonite - trace to moderate to strong; Carbonate - moderate to strong	EPy		1 APy		0.1 Epy - trace to 1%.		
					with the unit above and planar foliated at 25 degrees tca. The chlorite rich SCH becomes more felsic with increasing off white - light grey ductilely deformed (folded) quartz - feldspar bands / layers alter the 27.50 m mark. A folded banded texture. At approx 28.0 m downhole the lithology becomes more chlorite rich with greasy slip planes contorted around discontinuous quartz lenses (~ 4 cm wide) between 28.33 amd 28.64 m. Towards adn at the lower contact the unit is a beige - tan strongly foliated feldspar rich SCH. 2 white calcite tension gashes at 29.15 m. Lower contact is sheared at 30 degrees tca with fault below. (29.48 - 29.90 m) FLT - Brown clay gouge + rock crush for 7 cm on hanging wall on this interval; the rest of the interval is broken core + 20% clay gouge; 90% of broken decomposed core is chlorite SCH (average size 1.5 cm); 2 pieces are a grey foliaform quartz. (29.90 - 30.63 m) Chlorite - quartz - feldspar SCHIST with carbonate alteration. Rust brown grey, tightly (class 3) ducily deformed pale grey quartz - feldspar bands and dark micaceous greenish - grey bands with a weak light (< 1 mm) local carbonate spotted texture. (30.63 - 30.84 m) FLT gouge. 80% pale buff beige fault - clay gouge + 20% grit + small (< 1 cm) chlorite SCH chips. Upper contact at 70 degrees tca; lower contact not intact.	lim	Wk	carb	Mod	Limonite - locally strong. Carbonate -weak to moderate to strong.							
DM16-03	26.24	30.84	SCH-i		QV - intensely cracked with limonite coatings. Orange rust (limonite) coated fractures - intensely cracked milky white quartz with limonite 2 medium grain, sub euhedral galena and more prominent euhedral pyrite psedomorping to limonite - also fine grained to medium grained.						EPy		0.1 Gn		0.1		
					Chlorite + carbonate SCHIST. (This interval is broken up into 2 sub-intervals:) (31.30 - 33.00 m) Strongly deformed foliation about several large lenses of milky white foliaform quartz sweats; quartz sweats are boudined and the lithology in between a chlorite (feldspar - quartz) SCH. Much of this sub-interval is overprinted by a spotted - leopard texture. Black mineral (biotite? pyrolusite?) - locally recessive and 'moth-eaten' texture. Pyrite (disseminated, fine grained, euhedral) is associated with this black spotted leopard moth-eaten texture - carbonate altered. (33.00 - 33.8 m) Planar foliated, moderate grey, textured carbonate - chlorite SCH. Fine grained and fine folae.	lim	Tr	carb	Str		EPy		0.1		15		
DM16-03	33.8	38.6	SCH-i		(33.8 - 34.97 m) FLT - Broken core 80% + gouge and slip planes 20%; HW contact is a gouge slip plane @ 30 degrees tca. Intense carbonate particularly along fractures. Some select broken core are foliaform quartz + pyrite; other core contains brecciated quartz + chlorite SCH rock. (34.97 - 38.27 m) Chlorite +/- banded quartz - feldspar SCHIST deformed. Primarily a greenish grey chlorite chlorite - rich deformed SCH grading down into more and wider (and open fold deformation) lighter felsic bands of quartz + feldspar. Intensend spotted (white) carbonate alteration on the footwall and hanging wall. Pronounced shearing of folae towards the foot wall contact suggest a 90 degrees tca contact with the fault below. (38.27 - 38.60 m) FLT - weakly rusty brown gouge (80%) with milled chlorite - quartz - feldspar SCH. Typically pieces 4 mm and sub-rounded in gouge. Gouge is clay + grit (chlorite - quartz SCH). Upper contact ~@ 90 degrees tca, lower contact ~@ 45 degrees tca. compositional layers with intense deformational ductile folding. The quartz is margined by black anisotropic fine to medium grained aligned leached out biotite (?) flecs - these are not continuous but dotted along deformed foliation planes. (5 - 7%) - giving rise to almost a gneissic texture (fel intrusive?). Local halos around fine cross cutting quartz stringers have associated medium grained crystals (with striated faces) *ars and pyritohedrons (with striated faces) in the halo envelope. Both minerals are disseminated throughout the envelope and can reach 1% locally. Highlights include: (42.20 - 42.4 m) Rusty fracture - oxidized, limonite; has a 2 cm halo envelope with associated euhedral pyrite pseudomorphing to limonite, Halo is a pale yellow rust color. (44.00 - 44.60 m) Silica flooded zone about 3 widely spaced 1 mm wide stringers with associated halo - envelope and mineralization (pyrite + ars). 30 cm from lower contact (at 85 degrees tca) also washed out texture due to QV at foot wall of this interval. Silica flooding noted pyrite + ars in trace disseminated amounts - bright and crystalline. (44.6 - 44.66 m) Quartz veinlet - milky white quartz; weakly fractured --> multi-phase with a central grey strip (4 mm wide) with up to 5% euhedral pyrite within the narrow strip. Very fine grained. Limonite coated fracture - quartz veinlet is 7 cm wide. (44.66 - 45.94 m) Light grey quartz rich SCHIST with	lim	Tr			EPy		0.1		Epy - locally up to 1%.			
DM16-03	45.94	49.03	SCH-i		(48.44 - 48.86 m) Chlorite - quartz - feldspar SCHIST. Compositional light grey quartz - feldspar and dark greenish grey chlorite - sericite - muscovite distorted, boudined and disrupted foliation with some local 3% spotted overprinting black mineral - leached and moth-eaten spots (1 mm in diameter). Tiny (< 1 mm) pervasive specs of white through most of interval - albitization?? Very fine grained, trace amounts of pyrite throughout interval. Upper contact at 45 degrees tca; lower contact at 90 degrees tca. (48.86 - 49.03 m) QV mineralogy; very fine grained and soft --> altered (sericite? + other). Lithology has 1% disseminated, pervasive, euhedral pyrite and lesser euhedral ars. - fine to medium grained. (44.29 - 50.5 m) Carbonate altered dark green grey chlorite SCHIST spotted. Dark green grey matrix with pale beige sub-angular clasts and spots <-- alteration. Hanging wall has a broken brecciated look although the unit becomes a dark greenish grey matrix with just the pale beige spots. These spots are calcareous and are an overprinting alteration. Dark green matrix mineralogy hard to identify - primarily chlorite (no quartz / feldspar). Lower contact is gradational 40 degrees tca (parallel to foliation). (50.5 - 53.89 m) Chlorite - carbonate SCHIST. Dark greenish grey unit with local off white carbonate streaks and/ or tiny (< 1 mm diameter) off white carbonate specs. Chlorite makes up the bulk of the mineralogy of this unit. Highlights: 53.46 m - 9 cm foliaform quartz lense - discontinuous. 53.55 m - cross cutting stringer. (53.89 - 54.77 m) FLT - contorted, brecciated zone. Moderate grey contorted interval with slip planes within interval and oxidized clay gouge shear plane at the foot wall contact. Contorted, crackled locally where quartz rich layers are with deformed dark green grey chlorite infill. Fine to medium grained, euhedral pyrite in matrix within the contorted chlorite SCH. Pyrite occurs as a 3-4 mm 'seam' (anhedral) at Chlorite - sericite / muscovite (quartz) SCHIST with weak stringers. Moderate grey moderately foliated, chlorite - sericite - muscovite - feldspar with rare blue grey 2 - 3 mm milky quartz eyes - medium to coarse grained. Local areas within interval have a whitish interstitial mineral - feldspar (altered? - albitized?) - 10%; other sub-intervals have a black spotty - leopard moth-eaten alteration overprint. *Also generally there is a weak (fine) milky quartz stringer set cross-cutting foliation with local associated bleached, halos and associated pyrite +/- ars mineralization. Detailed (sampled) highlights include: (54.77 - 55.71 m) Slightly faded altered SCH with numerous stringers - more sericite - muscovite. (55.71 - 56.96 m) Darker matrix than (54.77 - 55.71 m) - trace pyrite; only 2 or 3 very fine cross cutting fracture fill - related to stringers; pervasive white specs (albitized feldspar?) and local areas of black spotty texture. (56.96 - 57.60 m) Increased zone of foliaform quartz sweats; increase in spotty alteration textures --> white (albitized feldspar?) --> black spotty - leopard moth-eaten texture; white - 7% local across quartz sweats; black 5% across whole sub-interval. Increase of medium to coarse grained, euhedral pyrite, cubes in matrix. 58.73 m - 1/2 mm wavy fracture fill with fine ars + minor pyrite + minor carbonate. ~ 90 degrees tca. E.O.H.	lim	Wk	carb	Wk		EPy		0.1				
DM16-03	49.03	54.77	SCH-m		Overburden - 90% milled, rubbled quartz; mineralized.	lim	Str			Carbonate - intense to strong to moderate.	EPy		0.1		Epy - 1% locally.		
DM16-03 DM16-04	54.77 4.45	60.96 4.72	SCH-i OV8			lim	Str				EPy		0.1 Gn		0.1		

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
DM16-04	4.72	5.37	SCH-i		Rusty quartz - chlorite (sericite / muscovite) SCHIST - strong deformation. Compositional light and dark tightly folded - deformed layers / foliation. Light bands are predominantly off white, fine grained sucrosic quartz (minor feldspar??). Dark bands are greasy green - grey chlorite - sericite / muscovite mix. This unit strongly oxidized and exhibiting tight class 3 folding - ductile. Light bands are 60 - 70%; dark bands are finer 30 - 40%. Pyrite found in matrix as fine grained disseminated, euhedral often pseudomorphed to limonite. This interval is within the surface oxidation profile and is very rusty. Upper contact - not intact. Lower contact at 30 degrees tca.	lim	Str										
DM16-04	5.37	5.66	QV		~30 cm long vein; milky white with pale rst on moderately fractured quartz vein. Some subtle pale grey blemishes. One sub-parallel set of fractures at 15 degrees tca orthogonal to lower contact. One 2 mm spec fo galena with associated pyrite. 5% 'washed' WRI.	lim	Tr					EPy		0.1 Gn		0.1	
DM16-04	5.66	9.7	SCH-i		Rusty quartz rich chlorite (sericite / muscovite) SCHIST - strong deformation. Very similar to (4.72 - 5.37 m); more intense MnO2 stain with rust (limonite) on hanging wall side towards QV. The folds noted are very tight as in (4.72 - 5.37 m) - many being close to isoclinal. Pronounced ductile deformation. Highlights: (6.67 - 7.00 m) Slightly faded to greyish weak silica flooded with noted larger (medium grained, euhedral) pyrite - only in trace amounts. (8.0 - 9.0 m) this sub-interval is characteristically severely rusty (oxidized). One foliaform grey quartz (3 cm wide) is in a broken section of the core (~8.50 m). Foliation changes from 60 to 5 degrees tca; and then back up to 90 degrees tca by the end of the interval. (9.0 - 9.7 m) Less compositional banding towards foot wall of sub-interval. Some large (8 mm across) euhedral pyrite within 20 cm of lower contact (not intact).	lim	Wk					EPy		0.1			
DM16-04	9.7	10.45	QV		QV - mineralized. Moderately to intensely crackle fractured with rust (limonite +/- pyrolusite) on fracture surfaces. Slightly more rusty towards foot wall where there are 1/2 dozen vugs (1 - 5 mm) across with limonite/ pyrite. 1 grain, 5 mm across of galena with a fine pyrite rim. Dark chlorite - sericite / muscovite (pyrolusite - feldspar/ quartz) SCHIST. Dark greenish - brown - grey fine grained chlorite + fine grained mineralogy - difficult to assess - quite decomposed and broken down/ altered. No significant sulphides observed. Unit considered mafic is 'sandwiched' between two quartz veins.	lim	Wk					EPy		0.1 APy		0.1	
DM16-04	10.45	11.24	SCH-m			lim	Str	carb	Tr								
DM16-04	11.24	12.45	QV		QV - 'dome load vein' mineralized. Weakly to locally intensively fractured; fractures stained with limonite and trace local black mineral - pyrolusite. A 2 x 1/4 cm irregular patch of galena together with minor euhedral pyrite occupies a fracture on the hanging wall contact. Other rare trace euhedral pyrite pseudomorphing to limonite can be found also along fracture at the foot wall end of the vein.	lim	Wk					EPy		0.1 Gn		0.1	
DM16-04	12.45	17.13	SCH-m		Dark rusty chlorite - sericite/ muscovite (feldspar - quartz) SCHIST - ankerite altered. Deep rust brown, fine to medium grained chlorite - sericite / muscovite (feldspar / quartz) schist that is strongly foliated and altered. Areas of a black - spotted texture; moderate to strong - intense ankerite alteration. Black spots are typically 2 - 3 mm across and have a moth-eaten appearance. Typical pervasive trace fine grained euhedral pyrite throughout interval. Highlights from sample descriptions: (12.45 - 13.0 m) 3 cm lense - foliaform quartz with 2 cm of slip gouge above it, grey and very crackled at 12.82 m. (13.0 - 14.0 m) @ 13.25 m - small amount - 10 x (1 - 3 cm) pieces of milky white chips; at 13.85 m grey foliaform quartz sweat 3 1/2 cm wide - no sulphides. (14.0 - 15.0 m) Predominantly spotty textured (1 - 3 mm moth-eaten) overprint; intense ankerite alteration; 70 - 90 degrees tca strong foliation. (15.0 - 16.0 m) More pronounced spotty texture than above + 2 cm wide limonite - clay gouge in foot wall area - core broken in this area near foot wall. (16.0 - 17.13 m) at 16.35 m; 4 cm foliaform quartz sweats; interval. Lower contact at 65 degrees tca with large sweat (foliaform) on this intervals FW..	lim	Str	carb	Str	Carbonate - is ankerite alteration		EPy		0.1		3	
DM16-04	17.13	17.64	QV		Quartz sweat foliaform - Large foliaform quartz (grey) + 15% ankerite and WRI; 'sweat'. Anhedral pyrite noted along irregular wavy contact. No OS.	lim	Wk	carb	Mod	Carbonate moderate to strong occurring as ankerite alteration.		EPy		0.1			
DM16-04	17.64	19.51	SCH-m		Altered chloritic - sericite / muscovite (feldspar / quartz) SCHIST - spotted. Mixed interval of dark greenish grey fine grain chlorite + sericite / muscovite (feldspars) with disrupted patches - boudins and sweats of grey - milky quartz sweats (10%). The interval pales slightly towards the foot wall contact. Minute off white 'flecks' of dolomite overprint the SCH and quartz - sweats fabrics - carbonate alteration (5%); Also black spotty leopard moth-eaten alteration overprints fabric as well - not sure of this mineral. Typically trace disseminated, euhedral pyrite ????? matrix; up to 1% in the paler areas.	lim	Tr	carb	Mod	Carbonate - fair to moderate		EPy		0.1			10
DM16-04	19.51	21.1	SCH-i		Silica flooded -> dolomite altered sericite / muscovite (chlorite) SCHIST. Pale streaky grey "washed" severely silica flooded (SF) and pervasive small patchy (1 x 2.5 mm) dolomite alteration throughout the interval. Core is hard and competent. Fine grained, euhedral disseminated pyrite throughout the matrix. Original texture partially masked by silica flooding and dolomite alteration.	carb	Str					EPy		0.1			
DM16-04	21.1	21.34	QV		Milky white, weakly fractured; select fractures filled with dark rust brown ankerite. Greyish hue occupies central vein area. Both euhedral and anhedral are noted in a close 1 - 2 cm proximity to the vein margin in trace amounts - fine grained.												
DM16-04	21.34	24.64	SCH-i		(21.34 - 21.55 m) Quartz - rich chlorite SCHIST. Light grey, compositional streaks of sucrosic quartz (60%) + (20 - 40%) darker chlorite and black irregular patches and spots of moth-eaten textured mineral. Unit grades into more chlorite rich composition ~ 20 cm at foot wall contact -> at 40 degrees tca. (22.15 - 22.28 m) QV (22.28 - 24.64 m) Oxidized, ankeritic quartz - chlorite (sericite / muscovite) SCHIST. Dark rusty brown, wel palnar foliated, chlorite - sericite / muscovite - quartz / feldspar schist that has a deep oxidation and carbonate altered -> masks original composition and texture; intense ankeritic alteration? Central part of interval is broken ad contains quartz pieces that have large (1.5 x 1.0 cm) vugs with FeOx; material is quite broken and even brecciated in this central portion.	carb	Str	lim	Str	Carbonate - occurring as ankerite alteration.		EPy		0.1			
DM16-04	24.64	24.85	QV		QV - milky white, massive quartz vein; ~20 cm long; dark fracture fill of WRI / euhedral pyrite (fine grained) +/- carbonate which is particular to the contact zones with the host rock.	lim	Wk					EPy		0.1			
DM16-04	24.85	27.97	SCH-i		Altered chlorite - sericite / muscovite quartz (feldspar) SCHIST wavy crenulated and spotted texture. Moderately rusty (oxidized) upper half of interval, becoming less oxidized and generally a moderate grey color. More specifically: composition - al wavy thin (1 - 3 mm thick) folae of: off white - light grey quartz (+ feldspar?) - very fine grained (~20 - 40%); greenish grey; greasy wavy folae 1 - 3 cm thick chlorite - sericite / muscovite (~60 - 80%); black mineral - at first glance appears to be biotite however on close inspection it maybe something else and seems to associated with a carbonate - has a local spotty leopard texture sometimes along folae or overprinting or along fracture - can have a recessive moth-eaten appearance -> wild guess if not decomposed biotite perhaps carbon rich + carbonate (pyrobitumen)???; and finally off-white specs (< 1mm) often associated with leopard black mineral - dolomite. (27.80 - 27.97 m) QV sweats with altered mineralized wall rock. Narrow zone with 2 - 3 (1 - 2 cm) wide milky foliaform quartz sweats with a aled, strongly foliated altered (dolomite - sericite / muscovite) chlorite - sericite (quartz) SCH host. There are tow distinct minerals -> pyrite and arsenopyrite; both fine grained (rare, medium grained) euhedral + oscillatory growth lines or striated crystal faces where seen. Both can be up to 3% locally; 1% through this narrow interval.	lim	Tr	carb	Wk	Carbonate - fair to moderate.		EPy		1		Pyrite - local. 1% arsenopyrite.	25
DM16-04	27.97	28.9	SCH-m		(27.97 - 28.12 m) Fine grained chlorite - sericite / muscovite - quartz (feldspar) SCHIST mineralized. Dark green grey, strong planar foliated, fine grained textured streak chlorite (sericite / muscovite), quartz (feldspar) schist. Up to 15% minor narrow quartz sweats. This small interval becomes more quartz rich (sweats) towards the bottom of the interval. Pervasive 'flacks' of off white carbonate alteration. Pervasive mineralization in the altered host rock disseminated fine grained to medium grained, sub-euhedral pyrite and lesser fine to medium sub-euhedral arsenopyrite (ars). These minerals are more abundant towards the hanging wall half of the sub-interval. (28.12 - 28.90 m) FLT - Light brown gouge (60%) + angular SCH + quartz clasts with grit (40%) calcareous. No sulphides seen. *Was originally logged as SCH-f? Quartz - rich chlorite (sericite / muscovite) SCHIST strongly deformed. Long interval that maybe 'lumped' -> this interval could be SCH-i blending into SCH-f. General description: intensely lightly deformed with overall decreasing chlorite (sericite / muscovite) - dark layers ad down hole increasing quartz (feldspar) rich - light layers. The change is gradational and by the end of the 65 - 70% quartz (feldspar) light compositional layers. Highlighted sample descriptions: (31.72 - 32.23 m) Very rusty oxidized and intensively deformed - folded local very chloritic enclaves with local 5% anhedral pyrite. (32.23 - 33.70 m) Strongly deformed boudinged, dismembered quartz rich compositional layers. (33.70 - 34.14 m) nose of open fold with high granular quartz (fine grained) - euhedral pyrite + euhedral arsenopyrite. Juxtapose x-cutting milky white quartz veinlet; passing through nose. (36.25 - 36.44 m) Medium to dark grey carbonate rich - more planar foliated; 3 cm wide foliaform quartz sweat at 36.32 m; trace pyrite in wall rock - ductile deformation; biotite - chlorite composition in mica. (36.44 - 41.15 m) Grey carbonate rich sub-interval. (41.15 - 41.57 m) 40 cm of foot wall; foot wall contact at 40 degrees tca; very deformed changing from planar foliated to asymmetrically folded sub-interval before broken section; perhaps the mica more biotite - chlorite.	lim	Tr	carb	Wk	Carbonate - moderate to strong locally in fault.		EPy		1		Trace arsenopyrite	15
DM16-04	28.9	41.57	SCH-i			lim	Tr	carb	Str	Limonite - trace to fair. Carbonate - intense.		APy		0.1 EPy		0.1 Epy - up to 1% locally.	
DM16-04	41.57	45.4	QAS		(41.57 - 43.68 m) *Was originally logged as SCH-m. Fine grain + bluish quartz porphyroblastic chlorite SCHIST with carbonate alteration. Dark greenish - brown grey, finer grained moderate to strong planar foliated. Core is broken and oxidized becoming more competent towards the footwall contact - lower contact at 90 degrees tca. Also bluish - white quartz eyes (3 - 5%) - distinctive towards FW. Increasing pyrite mineralization as large (up to 8 mm) across euhedral crystals in matrix. (43.68 - 43.85 m) QV mineralized, rusty broken core. (43.85 - 45.25 m) Fine grained + quartz (bluish) porphyroblastic SCHIST with tan carbonate alteration. Very similar to (41.57 - 43.68 m); fine grained chlorite rich, dark with distinctive blue - white quartz porphyroblasts - eyes. Highlights: 43.95 - mottled; black leopard spotted alteration overprint of altered quartz lense; mineralized with pyrite and arsenopyrite (euhedral). (45.25 - 45.40 m) FLT - tan brown gouge + grit (25%) + broken chips (largest 6 cm across). No sulphides.	lim	Wk	carb	Str	Limonite - fair to strong		EPy		0.1 Gn		0.1 Arsenopyrite - trace. Galena - local in QV. Epy - locally up to 1%.	3
DM16-04	45.4	55.96	SCH-m		(45.4 - 47.56 m) Fine grained chlorite (feldspar) carbonate SCHIST mineralized. Pyrite > arsenopyrite as large clots and crude cubes in a brown grey oxidized, fine grained, moderately foliated, broken; local spotted texture from white ragged carbonate blebs; abundant dull black manganese on fractures. 47.25 -> 47.56 m broken silicified hanging wall to quartz vein below; abundant manganese. (47.56 - 47.64 m) QV - orange white fractured QV; trace fine grained pyrite along upper contact. (47.64 - 55.96 m) Chlorite (feldspar) carbonate SCHIST strongly deformed: mineralized. Dark green grey, strong planar foliation, fine grained chlorite - sericite muscovite schist; white carbonate as clots throughout plus late very thin calcite irregular veinlets. 47.64 - 47.76 m Foot wall alteration zone to QV above; pale grey fine grained massive interval with 3% euhedral striated pyritohedrons and 2% arsenopyrite needles up to 4 mm long plus < 8 mm euhedrons; sharp lower alteration front at 47.76 m - 60 degrees to core axis. 20 cm of total width of white foliform quartz sweats which are often highly deformed with stylonitic selvages outlined by green chlorite +/- sericite local tight isoclinal folds especially towards lower "contact".	lim	Mod	carb	Mod	Carbonate - moderate to intense		EPy		1 APy		Epy - less than 1% up to 3%. Apy - trace to < 1%. Arseopyrite - trace to less 0.1 than 1% to 2%.	0.1

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz		
DM16-04	55.96	62.61	SCH-i		(55.96 - 58.50 m) Chlorite quartz (feldspar +/- carbonate) SCHIST spotted texture. Dark green grey quartz rich, strong planar foliation, spotted texture of black ragged ?biotite blebs in a chlorite - quartz matrix; quartz occurs in crude bands with local gneissic texture developed; distinctly poor in quartz sweats. 58.3 - 58.5 m - light brown grey hanging wall to QV below; silicified with 2% euhedral cubes (with fine grained pyrite filling cubic outline) and much lesser 1 x 4 mm arsenopyrite needles in a very fine grained schistose host. (58.50 - 58.63 m) QV - milky white QV mineralized. (58.63 - 62.61 m) Chlorite - quartz (feldspar --> carbonate) SCHIST spotted texture. Dark grey green gneissic texture thinly foliated with distinct speckles of white carbonate after feldspar and decreasing down hole, blebs of ?biotite up to 2 mm with ragged edges giving core a speckled look 58.63 - 58.90 m - foot wall zone to QV above; silicified light grey weakly carbonate altered with decreasing amounts of fine grained pyrite in relic cubic outlines, trace as pyrite. Interval is devoid of quartz sweats till 60.83 m but overall 8% quartz # within interval.	lim	Wk	carb	Mod	Carbonate - moderate to trace.		EPy		1	APy		0.1	Epy - 2%, <1% to trace. Arsenopyrite < 1%.	8
DM16-04	62.61	70.1	SCH-m		*Was logged as SCH-i? Quartz - hornblende - biotite chlorite magnetite SCHIST deformed. Grey dark green well foliated locally gneissic texture with common magnetite blebs up to 2 mm in crude clusters; (unit has a fair amount of quartz giving it an intermediated designation over the mafic SCH); tight isoclinal folds occur locally with very rare augen texture; white specs of feldspars? to carbonate throughout as well as an local overprinting of tan clay mineral associated with black chlorite rich areas. Up to 10% quartz sweats throughout interval becoming more prevalent down hole- contoured and rimed outlined by hornblende and biotite. Fine grained pyrite occurs as very thin stringers cross cutting foliation as well as elongated blebs along foliation; (overall pyrite concentration is trace amounts). E.O.H.	carb	Mod					APy		0.1		Magnetite - 2%.	10		
DM16-05	4.57	4.8	QV Zone		Possible OVB? White QV with limonite, ground core at top of hole - possible overburden. (4.80 - 6.30 m) FLT - orange intensely broken clay rich FAULT. Generally < 1 cm chips of oxidized SCHIST fragments ?mafic?; 2% white quartz fragments in limonitic gouge. (6.30 - 7.62 m) Dark brown chlorite (sericite - muscovite) SCHIST oxidized. Well foliated rusty dark green chlorite rich interval with quartz / feldspar layers separated by chlorite, deformation obscured due to surface oxidization. Local 2 mm cubic outlines of goethite after pyrite.	lim	Str					APy		0.1		Apy trace to < 1%.	0.5		
DM16-05	4.8	7.62	SCH-m		White QV; vein is moderately broken with 10 cm brecciated upper contact of white quartz fragments cemented in an orange limonitic infill with secondary quartz crystal growth; limonitic and manganese coating fractures with boxwork texture locally in open space cavities.							EPy		0.1	APy	0.1			
DM16-05	7.62	8.6	QV		(8.60 - 9.45 m) FLT - Dark brown oxidized fault. Intersely shattered SCH-m chips of host rock (as 6.3 - 7.62 m above), abundant FeOxides and manganese with greasy slip surfaces; 2 x 3 mm quartz fragments at 8.8 m. (9.45 - 11.60 m) Oxidized dark brown chlorite (quartz - feldspar) SCHIST broken. Planar foliated generally with 20% deformed layers of chlorite and quartz - feldspar, totally oxidized. 10.2 --> 10.3 m Broken quartz vein. 10.3 --> 10.9 m Zone of common white quartz sweats up to 3 cm wide with < 1% euhedral oxidized pyrite in chlorite rich SCH host. (11.60 - 11.80 m) FLT - 2 mm sized red/ brown chips of shattered SCH, intense FeOx and manganese with 1.5 cm wide quartz sweat at lower contact with < 1% rusty euhedral pyrite along selvages.	lim	Str					EPy		0.1	APy		0.1		0.1
DM16-05	8.6	11.8	SCH-m		(11.80 - 15.40 m) Dark and medium green chlorite - sericite quartz (feldspar) SCHIST banded texture. Distinctly more quartz rich than above SCH with alternation layers of quartz - feldspar up to 8 m wide with dark green chlorite defining foliation, pitted due to surface oxidization; strong planar foliation. ~1% rusty euhedral pyrite throughout. 13.70 - 15.40 m: Moderate - strongly broken, intensely oxidized interval with abundant manganese coating fractures; moderate carbonate as white patches and thin stringers. (15.40 - 17.70 m) FLT - slickensides at 15.4 m on a fracture plane 15 degrees to core axis then broken and clay rich. 15.40 - 16.76 m green and orange clay gouge rich fault with milled fragments of SCH host and fractured limonitic quartz fragments up to 1 cm2. 16.76 - 17.7 m Broken SCH fragments (without the gouge as above) with thick coatings of limonite and manganese on fractures; fragments generally < 2 cm2 but up to 3 x 3 cm in size. Rusty pyrite concentrated near lower contact with vein.	lim	Mod	carb	Mod	Carbonate - local. Limonite moderate to intense.		EPy		0.5	APy		1	Apy < 1%; Epy < 1% to trace.	1
DM16-05	17.7	18.2	QV		Target "Dome Load" QV, mineralized. 50 cm long broken milky white quartz vein with limonite coating fractures, vein is fractured with rusty boxwork textured open space up to 5% lined with FeOx; galena occurs as 3 - 8 mm crystals associated with lesser euhedral rusty pyrite especially from 18 - 18.2 m; limey yellow - green oxide ?scorodite? Rusty orange chlorite quartz SCHIST, foot wall altered zone to quartz vein above; intense FeOx after pyrite. Core is very broken and pitted; 20% clay especially near upper contact. 18.5 - 18.6 m 5 x 2 mm chips of white quartz vein material in rusty host; local cockade quartz crystal growth; < 20% quartz in this interval.	lim	Str					EPy		1	APy	0.5	Apy < 1%.		
DM16-05	18.2	18.6	SCH-i		(18.60 - 29.50 m) Dirty green brown chlorite - sericite (quartz - feldspar) SCHIST deformed. Chlorite rich interval with < 10% quartz in a more massive looking section - quartz is not indiscreet bands as it was uphole); ragged white carbonate throughout; dull black manganese coats fractures; common very thin late x-cutting calcite stringers. 21.5 - 21.6 m FLT zone with 30% grey clay gouge, broken upper and lower contact. 22.3 - 22.5 m FLT, intensely broken SCH with 3 cm clay gouge along lower contact. At 23.7 m - 3 mm wide pyrite veinlet 35 degrees tca very oxidized with 2 mm rusty altered halo appears to be parallel to foliation? 26.3 - 26.8 m Zone of concentrated quartz sweats with 3% rusty euhedral pyrite. (29.50 - 30.0 m) FLT - zone of crushed SCH chips with < 2% clear quartz sweats as fragments in a tan yellow clay gouge cement upper and lower contact is broken.	lim	Str	carb	Mod	Limonite - moderate to intense. Carbonate - moderate to none.		EPy		0.1	APy		40	Epy - 3% locally. Apy - 40% locally.	1
DM16-05	30	42.3	SCH-m		Dirty green brown chlorite sericite (quartz) SCHIST broken zone of greasy chlorite + mica rich schist that is moderate ----> intensely broken with abundant Mn coated fractures. 34.7 - 34.9 m Fault of tan yellow clay gouge. (34.76 - 34.82 m and broken rusty SCH within gouge and as wall rock; < 2% tca) concentration of euhedral pyrite cubes. 37.9 - 38.1 m Zone of rounded white quartz with limonitic fractures in intensely broken SCH interval --> possible CAVED material but at the end of a drilled run.... looks out of place. 38.1 --> 42.3 m Distinct increase of quartz sweats up to 10% of interval with common rusty pyrite cubes along dry fractures (often x-cutting foliation); weak white carbonate as x-cutting stringers.	lim	Wk					EPy		0.5	APy	0.5			
DM16-05	42.3	45.3	SCH-i		Dark green chlorite quartz (+ carbonate) SCHIST deformed. Spotted texture. Chlorite rich with abundant highly deformed quartz sweats often truncated and tightly isoclinally folded, local crenulation cleavage developed, common large blebs of rusty pyrite cubes. 43.55 - 45.30 m - "spotted" texture due to black biotite? blebs overprinting foliated and deformed chlorite SCH common very late ragged white calcite on margins of quartz sweats.	lim	Tr	carb				EPy		2					
DM16-05	45.3	46.6	QV Zone		SCH + QV's. Zone of fractured sub parallel x-cutting quartz veins up to 4 cm wide and abundant limonite; local boxwork texture 5 mm x 2 cm open space cavities; pyrite cubes are totally oxidized on margins of quartz plus 2 mm oxide stringers along lower contact 85 degrees tca at 45.9 m. 45.9 --> 46.6 m - footwall alteration to veining above as dirty brown green colored carbonate altered SCH.	lim	Mod					EPy		0.1					
DM16-05	46.6	54.4	SCH-m		Green chlorite - sericite - quartz SCHIST deformed. Very chlorite / mica rich interval with minor quartz layers; distinct lack of quartz sweats until 53.7 m. Overall interval is non-distinct and trace levels of euhedral pyrite; dominantly planar thin spaced foliation with tightly deformed quartz sweat at 47.5 m; unit is overprinted with ragged white carbonate. 46.6 - 47.0 m - Zone of 6 <2 cm wide quartz sweats with chlorite selvages (often stylolitic lower contact; pink colored k-feldspar occurs in quartz stringers locally. 47.24 - 48.0 m - Zone of intense carbonate (overprinting feldspar?) giving sub-interval a speckled look. 51.4 - 52.0 m - Very chlorite and sericite rich interval with distinctive cubic pyrite up to 8 mm across; sulphides is not elongated along foliation; cube shapes filled by fine grained pyrite. 53.7 - 54.4m - Zone of concentrated quartz sweats up to 30% of sub-interval; sweats are highly deformed.	lim	Tr	carb	Mod			EPy		0.1		1			
DM16-05	54.4	60.35	QAS		rich schist with marked introduction of white cubes and rounded shaped feldspar (and blueish white quartz eyes) porphyroblasts altered to carbonate; altered feldspars / quartz lenses become elongate along foliation downhole giving core an augen appearance; late white carbonate x-cutting veinlets up to 4 mm wide at 35 degrees tca; distinct lack of quartz sweats. 56.5 - 56.9 m - Hanging wall altered zone to 4 cm QV. Rusty orange oxidized SCH with 1 - 2% rusty pyrite cubes up to 4 mm across; intense manganese on fractures; pervasive clay alteration gives core a pitted rotten look; boxwork texture in open space cavities; interval weakly silicified next to vein. 56.90 - 56.94 m - QV mineralized. Ribbon vein with trace euhedral pyrite in vein but concentrated along foot wall margin; immediate to vein is large 12 mm2 pits coated in limonitic FeOx. 56.94 - 57.55 m - Foot wall alteration zone to QV above interval is moderate to weakly silicified away from vein; rusty brown colored with tan amorphous clay? coating pitted x-cutting fracture fills. 57.55 - 60.35 m - SCH-i as above only grey calcareous spotted textured SCH is cut by 8 dry fractures with orange rusty alteration halos giving core a patchy look; dry fractures are commonly parallel to foliation; distinct lack of quartz sweats.	carb	Mod	lim	Str	Locally strong - limonite.		APy		0.1	EPy		0.1		0.1
DM16-05	60.35	77.72	SCH-m		patches of ragged biotite? overprinting; interval is highly deformed with augen shaped lenses of quartz sweats pulled out along foliation. 64.55 - 64.8 m QV rich interval, broken with some QV fragments along foliation but also 6 cm piece possibly x-cutting. -Very little alteration of wall rock around this QV with elevated concentration of pyritohedrons between 64.3 - 64.55 m and local clots of fine grained pyrite in crude cubic shapes below vein to ~ 65.4 m; one clot of fine grained pyrite with fine grained arsenopyrite intergrown at 64.2 m. (66.9 - 71.5 m) Dark green chlorite - carbonate SCHIST mottled texture. Schist is more massive and chlorite rich and overprinted with white carbonate giving core a mottled look; thin wispy chalky white late < 1 mm wisps of calcite common x-cutting foliation (and as fracture fill up to 5 mm wide between 66.9 - 67.3 m) local patches of m sized tan brown specs of clay; distinct lack of quartz sweats. (71.5 - 72.8 m) FLT - dirty tan / green colored very clay rich fault with 50% broken chlorite rich schist fragments; lower contact preserved at 50% tca; locally brecciated with schist fragments in a gouge cement; 72.4 - 72.8 m is a < 1 cm wide quartz / carbonate vein broken along a 10 degree tca shear plane within the fault; entire fault has pervasive carbonate throughout. (72.8 - 76.2 m) Same as 66.9 - 71.5 m interval above only very broken with 10% tan brown gouge in patches. (76.2 - 77.72 m) FLT - 14' casing; Ground core of 60% rounded, doubly ground QV fragments with 4 mm sized oxidized pyrite cubes plus tan green sericite rich schist rubble.	lim	Mod	carb	Str			EPy		0.1	APy		0.1		
DM16-06	4.27	4.57	OVB			lim	Str					EPy		0.1					
DM16-06	4.57	8	SCH-m		Dark brown chlorite - sericite SCHIST oxidized. Well foliated rusty chlorite rich interval, minor quartz / feldspar layers separated by chlorite - striped look. Common x-cutting discontinuous quartz thin stringers up to 3 mm. 35 degrees tca - 90 degrees to foliation of 35 - 40 degrees tca. Interval also cut by dry (quartz less) fractures with rusty alteration envelopes 1 - 3 cm wide --> fine grained cubes of rusty pyrite outlines locally in dry fractures 90 degrees tca. 4.9 - 5.4 m Rusty broken interval with 2 cm fractured white quartz outlining a fold in schist. 7.7 - 8.0 m dull brown hanging wall to vein below - chlorite and Mn rich with 3% euhedral pyrite cubes.	lim	Str					EPy		0.5	APy	1	Epy < 1%.	1	

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
DM16-06		8	8.3	QV	QV mineralized - Rusty milky white quartz vein with 1 cm3 squarish pits with fine boxwork texture developed coated in limonite vein contains blebs up to 2 mm of galena and rusty pyrite.	lim	Str					EPy		0.5	Gn	0.1 Epy < 1%; Galena < 1%.	
DM16-06		8.3	8.5	SCH-m	FLT - fault of intensely broken chips of manganese coated schist; common 1.5 cm2 chips; chlorite rich sheared host between QV.	lim	Str	mno	Str								5
DM16-06		8.5	8.9	QV	QV - rusty fractured quartz vein with limonitic fractures grades into white QV without limonite by 8.8 m trace 1 mm rusty pyrite cubes in quartz interval lacks open space with boxwork texture as above QV.	lim	Str					EPy		0.1			
					(8.90 - 9.55 m) Dirty green brown chlorite - sericite - quartz SCHIST oxidized. Planar foliated chlorite rich interval of chlorite - sericite bands; moderately broken with abundant manganese on fractures; yellow clay coats fractures locally. 9.35 - 9.55 m Zone of pitted very rusty "frothy" SCH with increase concentration of white + clear quartz sweat fragments. (9.55 - 9.65 m) QV mineralized - 10 cm chunk of rusty limonitic quartz vein with a bleb of galena minor open space yet fractured which are coated in limonite. (9.65 - 9.9 m) Dirty green brown chlorite - sericite - (quartz) SCHIST as above highly deformed with tightly folded quartz sweats chlorite sericite rich schist with rusty pits. Lower contact faulted and intensely broken.	lim	Str	mno	Str	MnO - strong locally.		APy		1	EPy	0.1 Apy up to 3% locally, Galena trace in QV.	5
DM16-06		9.9	10.67	QV	QV mineralized - milky white quartz vein with limonitic fracture surfaces; 10% very vuggy large open space with fine network of boxwork (very prospective looking) *0.60 m of core loss within interval. Trace arsenopyrite a very fine specs within boxwork textured openspace.							EPy		0.1	Gn	0.1	
DM16-06		10.67	11	SCH-m	Dirty brown green SCHIST with chlorite - sericite bands outlining planar foliation 35 degrees tca; intense Mn coating fractures.	lim	Str	mno	Str								1
DM16-06		11	11.5	QV Zone	FLT / QV - 2 mm chips of rusty QV up to 80% and sheared rusty SCH in fault (18 cm recovered) *0.6 m LOST between 11 --> 11.9 m.	lim	Str					EPy		0.1	APy	0.1	
					(11.5 - 11.9 m) FLT - distinct change in 2 m sized chips of schist (compared to the rusty orange QV chips 11 - 11.5 m) with 30% gouge, intense manganese. (11.9 - 15.4 m) Dirty green brown chlorite - sericite - quartz SCHIST calcareous. Chlorite rich schist with moderate pervasive carbonate alteration; interval is planar foliated with white discontinuous quartz / feldspar bands then by 13.5 m, unit is tightly folded. 14.9 - 15.4 m Bright orange FeOx coating fractured fine grained SCH. Hanging wall to QV / fault below.	carb	Mod	lim	Str	MnO - intense.		APy		0.1			0.1
DM16-06		15.4	16.15	QV Zone	FLT / QV - Earthy brown orange intensely shattered rusty SCH host (+ gouge < 5%) and quartz vein material; interval has 8 cm of white QV with limonitic fractures recovered to end of interval. *0.6 m lost between 15.4 - 16.15 m.	lim	Str					EPy		0.1			
DM16-06		16.15	18.2	SCH-m	Dark green chlorite - sericite (quartz) SCHIST - carbonate altered, spotted texture. More massive looking interval of chlorite rich bands and lesser sericite layers with a distinct lack of quartz sweats; abundant Mn and late wisy x-cutting discontinuous calcite stringers. 16.15 - 16.6 m Broken faulted zone with three 2 mm wide calcite and quartz stringers with associated 1 cm rusty alteration envelopes.	carb	Mod	lim	Str	MnO - strong.		APy		0.1			
DM16-06		18.2	18.4	QV	QV - Very white quartz vein fragments with no limonite; internally fractured into crude cubes; no sulphides.												
DM16-06		18.4	18.7	SCH-m	Rusty chlorite - sericite - quartz SCHIST oxidized. Intensely oxidized fractured schist with 3% rusty disseminated pyrite cubes; highly fractured interval with FeOx and Mn coating fractures.	carb	Mod	lim	Str	MnO - strong		EPy		3			
					QV - ?target "Dome Load" vein? mineralized. Well recovered fractured 60 cm wide rusty pitted milky white quartz vein with limonitic fractures; 2 mm blebs of galena with much greater concentrations of pyrite cubes and anhedral blebs in quartz - local fine grained pyrite in rusty cubic pits, two generations of pyrite; vein is moderately broken and containing 5% open space cavities lined with fine network of boxwork texture (- ?evidence of previous existing sulphides).	lim	Str					EPy		2	APy	1 Galean < 1%.	
DM16-06		19.3	23	SCH-m	Dark green chlorite - sericite - quartz SCHIST oxidized, carboate altered. Chlorite rich planar foliated schist with thick manganese coating fractures; distinct lack of quartz sweats. 19.3 - 19.6 m - Foot wall altered zone to QV above, fine grained with abundant sericite; manganese coats fractures with iron oxides; common euhedral pyrite cubes up to 3% until a 2 cm fault gouge shear at 19.6.	lim	Mod	mno	Str			EPy		0.1		Epy - up to 3% locally.	0.5
					Striped cream and dark green brown chlorite - quartz - carbonate SCHIST. Chlorite rich with marked increase in quartz - feldspar layers outlined by chlorite giving core a banded striped texture, local augen shaped elongated quartz - feldspar lenses; interval x-cut by 2 mm thick rusty pyrite + calcite stringers - 50 degrees tca (foliation 40 degrees tca, strong almost 90 degrees to foliation). 23.0 - 23.25 m Zone of concentrated quartz sweats up to 6 cm wide with 40% calcite and brown siderite laths.	carb	Str			Carbonate - strong locally.		EPy		0.5	APy	0.1 Epy - < 1% - patchy.	
DM16-06		25.2	25.9	QV Zone	QV / SCH - chlorite - sericite - muscovite - quartz SCHIST with 30% quartz vein fragments. *broken with 0.30 m LOST *possible vein material lost during drilling.	carb	Mod	lim	Wk			EPy		1		Epy 1% overall.	
					(25.9 - 26.9 m) Dull green chlorite - sericite - quartz SCHIST (augen) texture, phacoidal. Quartz - carbonate rich lenses elongated separated by dark green chlorite gives core an augen lenzoidal texture and wavy foliation; abundant Mn coating fractures. (26.9 - 28.2 m) FLT - green brown clay gouge rich faulted SCHIST. Interval with abundant chlorite - sericite greasy fragments and chips; rare white quartz sweat 1 cm2 rounded fragments at start of interval; trace fine grained pyrite. *0.6 m lost core between 26.9 - 28.2 m.	carb	Wk	lim	Mod	Carbonate - weak locally; Limonite - moderate locally.		APy		0.1			
DM16-06		28.2	31.4	SCH-i	Chlorite - sericite - quartz - feldspar (+carbonate) SCHIST porphyroblastic texture. Green brown planar foliated schist with repeating 3 mm wide quartz / feldspar bands outlined by chlorite or sericite layers foliation 50 degrees tca. Distinct lack of quartz sweats overall. 28.2 - 28.6 m Zone of concentrated quartz sweats up to 7 mm wide (10% fo interval) - discontinuous. Interval cut by < 1 cm wide white carbonate stringers - 90 degrees to foliation.	carb	Wk	lim	Wk			EPy		1			
					Pale green chlorite - sericite rich SCHIST with distinctive rounded blueish white quartz eyes (and crude rectangles of feldspar (altered to carbone) plus common euhedral, cubic rusty outlines / pits; pyrite crystals up to 1 cm in size. (32.0 m - 10 cm caved material during drilling). 35.32 - 35.40 m - 8 cm clay gouge FLT with 20% chlorite - muscovite SCH, 2 mm flakes in gouge. 35.4 - 35.9 m - Zone of concentrated quartz sweats up to 7% of interval - boudinaged along foliation (35 degrees tca) common rusty pyrite cubes up to 1 cm wide ribboned quartz/ carbonate stringer at 35.6 m.	carb	Wk					EPy		2			
DM16-06		36.9	38.65	SCH-i	Chlorite - sericite - quartz - feldspar (+carbonate) SCHIST porphyroblastic texture. Green brown planar foliated schist with repeating 3 mm wide quartz / feldspar bands outlined by chlorite or sericite layers foliation 50 degrees tca. Distinct lack of quartz sweats overall. 37.85 - 38.5 m - faulted zone with 20% white quartz sweats up to 6 cm across in greasy chlorite rich SCHIST. 37.9 - 38.10 m - shear of < 1 cm sized chlorite SCH fragments. 38.4 - 38.63 m - silicified fine grained chlorite - sericite SCH, hanging wall to QV + lost core interval.	carb	Wk	lim	Wk								
DM16-06		38.65	39.65	QV Zone	FLT / QV - (*0.90 m lost core). Orange shear zone with gouge and quartz vein material plus drillers marked "Fault of clay washed" 0.90 m not recovered. 38.65 m 1 cm coarse quartz crystal infill open space cavity cross cutting foliation. 39.62 - 39.65 m Brown clay gouge (recovered after 0.9 m LOST) contains 1 - 2 mm chips of SCH milled fragments; minor brecciation of host.	carb	Mod	lim	Str			EPy		3			
DM16-06		39.65	41.15	SCH-m	Brown green Chlorite - sericite - quartz (+/- biotite) + carbonate SCHIST deformed. Spotted texture chlorite schist with black spots of biotite giving core a speckled look. 2% broken boudinaged + locally tightly folded quartz sweats - often discontinuous; interval overprinted by late stage ragged white carbonate stringers plus interval is strongly carbonate altered. At 40.1 m small patch of lime gree sericite along foliation. E.O.H.	lim	Wk					EPy		0.5		Epy < 1%.	
DM16-07		4.2	4.7	QVB	0 - 4.20 m Casing, no core recovered. Double drilled pitted quartz rich biotite chlorite sericite SCH rubble.	lim	Wk										
DM16-07		4.7	13.75	SCH-m	Dark green chlorite - sericite - quartz - carbonate SCHIST banded texture (carbonate) interval of competent layers of quartz - feldspar and chlorite - sericite bands overprinted by pervasive carbonate alteration; local zones of intense deformation (with tight isoclinal folds); generally foliated 30 degrees tca; abundant sericite as < 2 cm wide bands in highly deformed sub-intervals; unit is cut by late stage rust; fractures with < 1 cm bleached FeOx rich alteration envelopes often 70 degrees to 80 degrees tca with trace rusty pyrite blebs.	carb	Str	lim	Str								1
DM16-07		13.75	15	SCH-f	Dirty white quartz - feldspar - chlorite - sericite SCHIST banded texture. Very quartz rich interval of equigranular quartz - feldspar with much lesser chlorite bands and sericite occurs near lower contact as discontinuous lenses up to 5 mm along foliation; planar foliation rusty fine grained pyrite after (pyritohedrons up to 1% near lower contact - pyrite < 2 mm across disseminated throughout. (Magnetite).	carb	Tr	lim	Wk			EPy		3	APy	1	1
DM16-07		15	15.3	SCH-m	Silky green sericite - chlorite - quartz SCHIST oxidized, sharp change to dominantly sericite bands with 10% rusty quartz - feldspar layers; interval contains 2% large rusty pyrite pits and cubes of fine grained pyrite. Hanging wall to QV.	lim	Str					EPy		2	APy	2	
DM16-07		15.3	15.5	QV	Mineralized white quartz vein with limonite coating fractures with > 8 blebs of galena in quartz as 2-3 mm clots; QV has 5% open space cavities locally with boxwork texture + fine grained pyrite along rusty fractures.	lim	Str					APy		1	Gn	2	
DM16-07		15.5	16.3	SCH-m	Sericite - chlorite - quartz SCHIST oxidized + carbonate. Dirty brown green very sericite rich interval with pervasive carbonate alteration and minor quartz layers; intensely rusty and dul black manganese coated fracture surfaces. 15.5 - 15.6 m - Foot wall alteration to QV, orange limonitic silicified interval cut by three up to 3 mm wide quartz stringers oriented 75 degrees tca interval is pitted and porous with <. Same as 13.75 - 15.0 m interval of very quartz rich dirty white banded SCH generally planar foliation with minor deformation; dull black manganese coats fractures; local fracture has heavy iron oxide after pyritohedron.	carb	Str	lim	Str			APy		2			1
DM16-07		16.3	17.4	SCH-f	Dirty green chlorite - sericite - quartz - carbonate SCHIST oxidized. Chlorite - sericite dominant schist with quartz / carbonate spotted texture layers separated by thick 5 mm - 2 cm sericite bands; abundant black Mn coating fractures (locally giving fractures a speckled texture); planar foliated with rare discontinuous quartz sweats; patches of ragged black spots ?biotite clots? 21.4 - 21.5 m Zone of 3% rusty pyritohedron shaped FeOxide (of fine grained pyrite) porphyroblasts.	lim	Wk										
DM16-07		17.4	21.5	SCH-m	50 cm wide limonitic white QV with 2% fine grained pyrite in rusty FeOx filled euhedral outlines, up to 15 mm across; vein has local open space cavities and quartz crystal growth infilling fractures. Drusy quartz crystals up to 4 mm euhedral crystals lining fracture oriented 40 degrees tca. Lower contact is brecciated with 1 cm angular SCH fragments in quartz.	carb	Str	lim	Str			EPy		0.1			1
DM16-07		21.5	22	QV		lim	Str					APy		2.5		Apy < 3%.	
DM16-07		22	22.86	QV Zone	SCH / QV - very poorly recovered interval of white quartz rich banded SCH-i fragments + 30% mineralized 3 cm3 QV fragments with *0.50 m LOST CORE* schist has 2% euhedral pyritohedron outlined FeOx + fine grained pyrite infill up to 3 mm across.	lim	Str					APy		2	Gn	5	10

From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz
DM16-07	22.86	24.5	SCH-i	(22.86 - 23.06 m) Green and white Quartz - sericite - chlorite SCHIST banded texture dirty white quartz rich layers with 40% sericite - chlorite layers, planar foliaiton; interval cut by hair width rusty x-cutting dry fractures oriented 70 degrees tca with associated 2 mm rusty pyrite cubes. (23.06 - 23.13 m) QV - Ribbon QV with 3 parallel rusty pyrite fractures within quartz vein; pyrite veins parallel QV contacts; 5% euhedral pyrite cubes (< 2 mm). (23.13 - 24.50 m) Quartz - sericite - chlorite SCHIST same as 22.86 - 23.06 m thick black flattened Mn blebs coat rusty fracture surfaces.	lim	Mod			Limonite - strong		EPy		0.1 APy		2 Epy locally 5% in QV. Apy locally 2%.	
DM16-07	24.5	26.7	QV	Target "Dome Load" QV - White QV mineralized milky white (with intensely fractured sugary quartz 24.5 - 24.6 m) vein with bright orange limonite coated fractures and common < 1% specs of galena overall.	lim	Str					APy		3 Gn		1 Epy - locally 3%.	
DM16-07	26.7	29.5	SCH-m	(26.7 - 27.1 m) Dull green sericite rich wall rock in between to QV sections with intense sericite and thick manganese coated fractures; minor deformed quartz sweats. (27.1 - 27.25 m) QV - Lower section of QV between 24.5 -> 27.25 m white quartz with bright orange limonitic fractures. (27.25 - 27.55 m) Orange Sericite - chlorite - quartz SCHIST oxidized, completely oxidized sericite rich schist interval between two QV's; pyrite as 5 mm pyritohedrons - rusty. 27.25 - 27.35 m - striped ad silky green (sericite) bands with deformed quartz rich layers. (27.55 - 27.75 m) QV - Broken quartz vein + oxidized wall rock. (27.75 - 29.5 m) Mixed zone of Sericite - chlorite - quartz SCHIST (with 20% striped quartz rich layers); intense Mn coating highly deformed interval with tight isoclinal folds of quartz sweats.												
DM16-07	29.5	34.9	SCH-i	(29.5 - 31.1 m) Zebra striped Quartz - sericite - chlorite SCHIST banded interval of 2 - 8 mm dirty white quartz rich layers separated by < 5 mm sized sericite / chlorite layers; planar foliated generally with local kink banding on a cm scale rusty pyrite porphyroblasts overprint interval < 2%. (31.1 - 32.1 m) Mixed zone of sericite rich SCHIST with QV rubble where drillers marked "Z faults" ; *0.7 m LOST core ?QV material could be caved?? (32.1 - 34.6 m) Rusty quartz - sericite - chlorite SCHIST oxidized, striped quartz rich interval with abundant sericite and local strongly deformed quartz sweats/ sericite zones; 32.1 - 32.7 m interval is cut by > 8 hair width "dry" fractures of FeOx which bleeds out into the wall rock - fractures + two 1 mm wide quartz stringer at 80 degrees tca, this area has 3% disseminated 2 mm sided pyrite cubes - oxidized. 34.15 - 34.6 m - Hanging wall alteration of 70% sericite with ragged dark green (?chlorite after biotite?) clots; rusty with 2% FeOx blebs concentrated at QV margin. (34.6 - 34.75 m) QV - white with limonite QV with pyrite. (34.75 - 34.85 m) 10 cm section of SCH as described between 34.15 - 34.6m; Very sericite rich and cut by 5 rusty FeOx coated fractures - 80 degrees tca. (34.85 - 34.9 m) QV - white rusty QV with pyrite. Mixed zone sericite - chlorite - quartz schist plus irregular bands of very quartz rich quartz - sericite - chlorite SCHIST. Contacts between two veins are very deformed and stepped due to competency differences (see photo 089) and at 35.65 m contact between units is cut by a 15 mm QV and three 3 mm wide QV's.	carb	Tr	lim	Mod	Limonite - trace to strong.		EPy		2 APy		1 Epy up to 3% locally. Apy - less than 1% up to 2%. Trace galena in QV	5
DM16-07	34.9	36.7	SCH-i	* Was originally logged as SCH-f? Mottled off white quartz (muscovite) sericite SCHIST phacodial texture. Distinct change to lensoidal shaped quartz rich areas up to 2 cm elongated and streaked with sericite (?muscovite) 2 mm partings - textbook phacodial texture locally interval is cut by thin FeOx fractures 80 degrees tca with associated rusty alteration envelopes near 37.3 m. 39.65 - 39.7 m up to 5% rusty pyrite cubes as hanging wall to QV plus thick coating of manganese.	lim	Str					APy		1			
DM16-07	36.7	39.7	SCH-i		lim	Str					EPy		1			
DM16-07	39.7	40.5	QV Zone	QV / FLT - White quartz vein + FLT gouge + 0.5 m lost*. 20 cm rusty QV recovered but broken then 10 cm rusty fault gouge + QV chips.	lim	Str					APy		1			
DM16-07	40.5	48.5	SCH-m	(40.50 - 46.7 m) Sericite - chlorite - quartz - feldspar SCHIST deformed. Distinct change to mafic SCH from felsic quartz rich units above; sericite rich interval of significant quartz sweats content (generally 20%); interval has moderate pervasive carbonate content. Patchy magnetic signature 40 - 45 m. 40.5 - 41 m - Sheared chips of green sericite rich SCH after faulted LOST core interval above. 41.2 - 42.0 m quartz sweat 43.1 - 43.9 m Zone of intense deformation with tightly folded boudinaged quartz sweats. (46.7 - 47.1 m) FLT - Tan fault gouge with 30% sericite schist milled fragments, 10 cm core recovered. *0.3 m lost*; at start of interval is 1% cubic rusty outlines of FeOx and fine grained pyrite. (47.1 - 48.5 m) Sericite - chlorite - carbonate - quartz SCHIST carbonate. Planar foliated schist with strong ankerite giving core a dirty orange brown look; local < 1% up to 4 mm rusty pyrite cubes near 47.4 m.	carb	Mod	lim	Mod	Carbonate - moderate to strong; Limonite - moderate to strong		APy		1		Apy locally < 1%.	20
DM16-07	48.5	49.5	SCH-m	(48.5 - 48.56 m) QV - ribboned texture. Manganese coated fractures in vein and 2% pyrite. In wall rock margins as a 5 cm each side of QV alteration envelope. (48.56 - 49.5 m) Sericite - chlorite - quartz - feldspar - carbonate SCHIST deformed sericite rich interval with wavy foliation planes and a greasy feel.	carb	Mod	lim	Str	Limonite - moderate to intense. Mn - strong locally.		APy		0.1		0.5	
DM16-07	49.5	49.7	QV	White quartz fragments (2 x 5 cm) with limonite + Manganese coating fractures. Mn locally dendritic; up to 2% rusty cubes with 1% fine grained pyrite in FeOx.	lim	Str	mno	Str			APy		1			
DM16-07	49.7	51.82	SCH-m	Sericite - chlorite - quartz feldspar schist oxidized. Sericite rich greasy feeling planar laminated schist with discontinuous quartz - feldspar layers; common up to 3 mm FeOx cubes of fine grained pyrite. 51.55 - 51.82 m Rusty zone of oxidized schist with up to 1% fine grained pyrite (in 2% rusty pyrite cubes out lines filled with FeOx); 5 mm wide quartz vein material with rusty selvages as small chips at very end of hole. E.O.H.	carb	Wk	lim	Str	Mn - weak		EPy		2 APy		1	2
DM16-08	1.52	10	SCH-m	(0.0 - 1.52 m) CAS, 5 feet, mica rich green / brown powder recovered in box. (1.52 - 5.5 m) Dark green chlorite - sericite - quartz - carbonate SCHIST oxidized. Fine grained interval where quartz is not defined in discrete bands but unit is foliated; strong pervasive carbonate (?after feldspars); common pitted 1 mm sized rusty pits showing foliation; *2% white foliaform quartz sweats - deformed with dark green selvages. 3.1 - 3.5 m Brown "silty" looking oxidized interval with intense pervasive carbonate; 3.13 m 4 - 6 mm wide x-cutting quartz / hematite stringer. 5.1 - 5.6 m Hanging wall rusty orange oxidized alteration envelope to QV below; 2% pyrite as 2 mm cubes concentrated near vein. (5.6 - 5.8 m) QV - orange / white QV mineralized pyrite and galena. (5.8 - 10.0 m) Dark green chlorite - sericite - (biotite) - carbonate - quartz SCHIST. Quartz poor interval of mafic minerals mitted and generally fine grained and generally planar foliated with zones of highly deformed truncated foliaform quartz with thick sericite chlorite margins; blebs of magnetite throughout with associated hematite staining. 8.75 - 10.0 m Dark green very pitted sugary textured foliated magnetite rich interval; very dark brown biotite rich, foliation 30 degrees tca.	carb	Str	lim	Str			APy		0.1 EPy		2 Epy local, galena local in QV.	2
DM16-08	10	11.65	SCH-f	SCH-f / SCH-i? Off white quartz - chlorite - sericite - biotite SCHIST gneissic texture gradational upper contact to banded chlorite / sericite biotite dominant layers to dirty white quartz rich layers; local tight isoclinal folds and layers are truncated giving core a cross bedded type of texture - this grades into felsic quartz dominant gneissic unit by 10.5 m; patchy carbonate as thin layers. Blebs of magnetite up to 3 mm across throughout.	carb	Wk	lim	Str			APy		0.1 Mag		2	3
DM16-08	11.65	14.8	SCH-m	Dark green brown chlorite - carbonate - sericite - quartz SCHIST. Mottled interval with intense pervasive carbonate and thick manganese coating fractures to banded schist with truncated foliaform quartz. 12.9 - 13.05 m interval of the dirty white quartz rich felsic schist with mm scale fractures 90 degrees to thin foliation parting - intensely sheared brecciated look with broken Mn stained upper and lower contact.	carb	Str	lim	Str	MnO - strong		APy		1		2	
DM16-08	14.8	15.6	SCH-f	Dirty white quartz - feldspar - chlorite SCHIST thinly laminated 2 - 4 m folia of domintly off white quartz separated by << 1 mm chlorite partings; 1% euhedral pyrite very irregular deformed lower contact see photos.	lim	Mod	mno	Str			EPy		1			
DM16-08	15.6	16.1	SCH-m	Dull earthy brown chlorite - carbonate - sericite - quartz SCHIST oxidized and altered. Hanging wall to QV with 10% white felsic unit as 14.8 - 15.6 m; overall hanging wall is intensely pervasively altered with 3% euhedral pyrite cubes < 4 mm across; - especially 15.8 - 16.1 m.	carb	Str	lim	Str	MnO - weak		EPy		3 Mag		0.1	10
DM16-08	16.1	16.5	QV	10 cm + section of intensely fractured white quartz vein with orange limonitic fractures; vein is mottled and shattered throughout, rusty sericite partings, no sulphides observed. + 0.3 m LOST core!	lim	Str					APy		0.1			
DM16-08	16.5	19.3	SCH-m	Dark green chlorite - sericite - hematite - quartz SCHIST +/- carbonate. Patchy carbonate altered schist with zones of 2 cm wide hematite (and start to lose the magnetite); chlorite and sericite rich with lensoidal texture of mafic rich layers.	carb	Mod	lim	Mod			APy		0.1		2	
DM16-08	19.3	19.9	SCH-f	Mottled dirty white quartz - chlorite - mica SCHIST.	lim	Str										
DM16-08	19.9	21.5	SCH-i	Mixed zone of chlorite - sericite - muscovite - quartz SCHIST with deformed quartz rich bands up to 30% of interval. Blebs of magnetite and rusty pyrite near margins of boudinaged and discontinuous deformed foliaform quartz sweats.	carb	Mod	lim	Str	MnO - moderate		EPy		0.5 APy		0.5	
DM16-08	21.5	21.8	QV	Limonitic milky white quartz vein with grey patches in quartz giving a mottled texture, rare open space and limonite coars fractures within vein, trace fine grained pyrite.	lim	Str					APy		0.1			
DM16-08	21.8	24.4	SCH-m	(21.8 - 24.0 m) Same as 19.9 - 21.5 m with more sericite, chlorite giving greasy feel to fractured surfaces, 10% felsic. 22.8 - 23.4 m Sheared and faulted into 3 cm3 chips of greasy SCH + manganese; quartz sweats highly deformed and isoclinally folded and truncated. (24.0 - 24.4 m) FLT - of intensely broken schist fragments and 30% white (non rusty) quartz vein fragments of foliaform veins, chips generally < 2 cm2.	carb	Wk	lim	Str	MnO - strong locally.		APy		0.5		Apy < 1%.	10
DM16-08	24.4	24.86	QV Zone	(SCH-f with QV's) Dirty white felsic SCHIST same as 19.3 - 19.9 m with QV. 4.5 cm wide at 24.45 m with 3 cm long FeOx coated huge open space cavity. At 24.7 m - 1 cm wide x-cutting QV as broken fragments. At 24.82 white.	lim	Str					APy		0.1			
DM16-08	24.86	25.8	SCH-f	(24.86 - 25.73 m) Dirty white quartz - sericite - muscovite SCHIST deformed. Thin layers of off white quartz with sericite partings as described uphole cut by > 15 sub parallel fractures that cross cut foliation with bleached alteration halos to dry generally fractures; dendritic Mn. Hanging wall to mineralized "Dome Load Vein". (25.73 - 25.8 m) FLT - light yellow FAULT clay gouge with 10% milled quartz and SCH fragments to < 1 cm sized chis fault along upper contact of large 3 m QV.	lim	Str	mno	Str			EPy		2			
DM16-08	25.8	28.7	QV Zone	Major white QV mineralized with galena, target "Dome Load Vein". 25.8 - 26.75 m White very tight non mineralized vein material, weak coating of limonite, rare open space < 2% as 4 mm rounded cavities. 26.75 - 26.95 m (SCH-i) Sericite rich altered wall rock within larger QV system; 2% rusty pyrite clots throughout, 1 cm quartz sweat along foliation at 26.86 m. 26.95 - 27.2 m 19 cm section of QV + wall rock to 27.2 m; wall rock intensely oxidized and sericite rich. 27.2 - 28.2 m QV with galena clots and large open space cavities; mineralized high grade core between 27.65 - 27.85 m. 28.2 - 28.33 - 13 cm wide oxidized sericite rich wall rock within vein, 10% broken foliaform quartz.	lim	Str					EPy		2 APy		2 Galena locally 5% and 3%. Pyrite - local concentrations.	
DM16-08	28.7	31.2	SCH-f	Banded dirty white quartz - sericite - chlorite - feldspar SCHIST wavy banded. Competent quartz rich interval of distinctive dirty white quartz / feldspar layers 10 - 20% sericite (after muscovite) lenses rhythmically layered; local augen shaped quartz lenses surrounded by sericite , abundant Mn of fractures. 28.7 - 29.1 m - Footwall to major QV is highly deformed and quartz rich with 2 - 5% euhedral pyrite along selvage of isoclinally folded quartz layers. 31.1 - 31.2 m - Hanging wall to QV with up to 3% euhedral pyrite rusty blebs in sericite altered SCH.	lim	Wk	mno	Str			EPy		2		Epy 2- 5% locally.	
DM16-08	31.2	31.5	QV	Pale yellowy white QV with common fracture of limonite + FeOx and pyrolusite; 5 clots < 5 mm wide of poorly formed galena + fine grained pyrite within vein frothy boxwork texture in FeOx concentrated fracture coating giving vein a ribbon texture as fractures parallel to vein upper and lower contacts.	lim	Str	mno	Mod			EPy		1 APy		2	

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration intensity	Alteration 2	Alteration intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz			
					*Was previously SCH-? (31.5 - 34.1 m) Wavy banded dirty white Quartz - sericite - chlorite - feldspar - muscovite SCHIST with phacoidal texture of stacked lensoidal shaped quartz lenses separated by sericite - muscovite - chlorite layers. Minor 2 cm shear along foliation at 32.5 m. Unit gradually becomes strongly sericite rich by ~ 33.5 m where quartz rich lenses become truncated with diffuse boundaries. (34.1 - 37.6 m) Pale grey - green Sericite - chlorite - quartz - feldspar + carbonate SCHIST deformed. Diffuse wormy looking interval which transitions from quartz rich gradually to a chlorite / sericite host with discontinuous strongly deformed quartz layers. Interval cut by numerous x-cutting thin, rusty fractures plus thicker stringers noted to the right of page; moderate pervasive carbonate throughout. (37.6 - 37.66 m) QV - yellow/ orange QV (trace pyrite.) (37.66 - 38.5 m) Same as interval 34.1 - 37.6 m described above, strong concentration of silky green sericite; interval x-cut by 4 < 5 mm wide waxy white truncated and offset (dextral 1 cm scale offsets) quartz stringers up to 3% rusty pyrite cubes up to 4 mm across along folia. (38.5 - 38.6 m) QV	carb	Wk	lim	Wk	Carbonate - weak to moderate. Limonite - locally moderate. Mno - weak to moderate.	EPy		1 APy		0.1 Epy up to 2%.					
DM16-08	31.5	38.6	SCH-i		Dull green brown Sericite - chlorite - carbonate - quartz SCHIST fine grained. Distinct change to quartz poor more mafic interval moderate to strong carbonate throughout, intense Mn blebs on fractures.	mno	Str													
DM16-08	38.6	39.3	SCH-m		FLT + QV - Orange FAULT with > 3 cm wide rusty QV fragment at 39.4 m in yellowy orange silky sericite rich fault gouge.	lim	Str					EPy		2 APy		0.5 Apy less than 1%.				
DM16-08	39.3	39.8	QV Zone																	
					(39.8 - 41.3 m) Dirty brown Sericite - carbonate - quartz SCHIST. Fine grained interval of carbonate rich schist with greasy Mn coated fractures; distinct lack of quartz sweats. 39.9 - 40.05 m Limonitic faulted zone with clay gouge < 10% and mostly milled schist fragments. 41.3 - 41.5 m Sheared chips of sericite SCH. (41.3 - 41.5 m) FLT - light brown FAULT with clay gouge and < 5 mm sized sheared sericite rich SCH chips. Green and dirty white Sericite - quartz SCHIST deformed. Zone of dirty white 3 mm wide quartz beds interlayered with sericite and yellow amorphous clay < 5%.	carb	Str		Str	Mno - Strong locally.	APy		0.1							
DM16-08	39.8	41.5	SCH-m			lim	Str					EPy		2						
DM16-08	41.5	41.8	SCH-i																	
					(41.8 - 45.7 m) Green Sericite - chlorite - carbonate - quartz - biotite SCHIST spotted texture. Very sericite rich interval and quartz poor with diffuse biotite clots; interval contains large white quartz sweats with stylolite sutures. Interval contains common large rusty pyrite cubes up to 8 mm infilled by FeOx and fine grained pyrite. Large quartz sweats: 41.9 - 42.1 m Irregular shaped < 6 cm quartz sweat. At 42.95 m - 3 cm quartz sweat. 43.8 - 44.0 m White quartz sweat. 44.35 - 44.5 m Stylolitic white quartz sweat. (45.7 - 45.85 m) QV - 4 - 5 cm2 fragments of rusty white quartz vein with 3% euhedral pyrite pits and vugs with boxwork texture 1% fine grained pyrite in rusty pits. (45.85 - 47.65 m) Olive green Sericite - chlorite - carbonate - quartz - feldspar SCHIST spotted texture. Sericite rich interval with weak - moderate pervasive carbonate; core, smottled with abundant chlorite and manganese; highly deformed discontinuous quartz sweats with thick sericite and manganese margins. Interval is moderately broken with 10% tan yellow clay gouge at 47 m. 45.85 - 46.05 m Foot wal alteration to QV, rusty limonitic fractures to strongly sericite rich SCH. Bleached with < 1% fine grained pyrite proximal to vein. (47.65 - 47.72 m) QV - rusty mottled white QV. (47.72 - 48.5 m) - Possible quartz - feldspar dyke? Mottled drab olive green carbonate - sericite - quartz - feldspar? SCHIST, unfoliated, altered QFP dyke with 3 mm sized rounded quartz grains in a carbonate rich sericite matrix; fractures thickly coated with manganese. (48.5 - 48.77 m) FLT- rusty FAULT - intensely broken sericite SCHIST fragments into < 3 cm3 pieces; 10% white quartz (?sweat) fragments up to 1 cm wide with FeOx and manganese coating fractures. E.O.H.	carb	Mod	lim	Str	Carbonate - moderate to strong. Mno - moderate to strong.	EPy		2 APy		2 Epy ranging from trace up to 3%; Apy ranging from trace to 2%.		5			
DM16-08	41.8	47.72	SCH-m																	
DM16-08	47.72	48.77	SCH-i		0 - 4.48 CAS - no core recovered. (4.7 - 7.2 m) Dark green grey Chlorite - carbonate - quartz SCHIST porous very fine grained interval of green chlorite rich quartz poor beds outlined by porous pitted ragged folia, its generally < 1 mm across - unit looks like a mafic volcanic protolith? fractures coated in dull yellow - tan clay locally (<=> to 7.5 - 7.75 m DM16 - 10). (7.2 - 14.95 m) Green grey Chlorite - carbonate - quartz - feldspar SCHIST banded. Planar foliated with strong pervasive carbonate fine grained layers of chlorite overprinted by a mesh texture of carbonate specs (?after feldspars?) 10.0 - 12.2 m brown ankerite fractured zone with common x-cutting carbonate veinlets up to 3 mm across typically 45 degrees tca.	carb	Str	lim	Mod	Limonite moderate to strong. Mno - strong.	APy		0.1							
DM16-09	4.48	14.95	SCH-m		Orange stained milky white internally fractured QV giving a crackle texture; in quartz local 2 cm x 3 mm wide open space with FeOx + boxwork texture and 2% rusty pyrite cubes.	carb	Str	lim	Str	Carbonate - patchy; MnO - strong locally.	EPy		0.5			Local Epy < 1%.	0.1			
DM16-09	14.95	15.4	QV		Rusty brown sericite rich Chlorite - sericite - quartz SCHIST. Footwall to QV with intense FeOx and 5% euhedral rusty pyrite cubes and pyritohedrons, local pyritohedrons up to 1 cm across filled with fine grained pyrite and a goethite FeOx rim.	lim	Str					EPy		2 APy		1				
DM16-09	15.4	15.65	SCH-m		White and clear grey foliaform quartz vein mottled fractured internally with manganese coating (- no limonite).	lim	Str	mno	Str			EPy		5 APy		1				
DM16-09	15.65	15.85	QV			mno	Str					EPy		1						
					Green grey Chlorite - sericite - carbonate - quartz SCHIST with magnetite; patchy strong to intense carbonate. 15.85 - 16.20 m Rusty sub interval footwall alteration zone to QV 4.95 - 15.4 m with 3 - 5% euhedral pyrite up to 1 cm across (locally infilled with fine grained pyrite 15.9 - 16.2 m Zone of 3 foliaform QV's < 8 mm. Magnetite occurs as blebs up to 4 mm across in clusters from ~ 16.8 to 18.9 m. 18.8 - 18.9 m Hanging wall to QV is intensely rusty planar foliated gneissic textured SCH - carbonate depleted next to QV.	carb	Str	lim	Str	MnO - strong.	EPy		1		Epy locally.					
DM16-09	15.85	18.9	SCH-m		Target "Dome Load" Quartz vein limonite stained mottled milky white QV with 5% open space as octahedron shaped pits up to 1 cm wide - with 2 blebs of arsenopyrite in center portion while hanging wall and mostly the footwall 8 cm selvage has boxwork texture with 2% local euhedral pyrite (locally infilled pyritohedrons with fine grained pyrite). 2 open space cavities display cockade quartz crystal infill - euhedral clear quartz up to 3 mm.	lim	Str					EPy		2 APy		1 Arsenopyrite < 1%.				
DM16-09	18.9	19.8	QV		(19.8 - 27.5 m) Green / dirty white / brown striped Carbonate - chlorite - quartz SCHIST. Intense pervasive carbonate (ankerite) gives core a banded striped texture; planar foliated consistently 35 degrees tca carbonate obscures original composition - textures; interval has local chlorite bands with pyrite cubes completely oxidized or infilled by secondary fine grained brassy pyrite; interval cut by wispy late white calcite discontinuous stringers at various angles to core axis; interval is magnetic between 23 - 25 m (magnetite sos total?) 25 - 27.5 m Common parallel set of very thin white carbonate fracture coating / stringers < 2 mm wide 8 / m oriented 30 degrees tca (~90 degrees to consistent foliation). 26.9 - 27.2 m Fractured faulted zone of rusty Mn coated carbonate rich SCH 3 cm3 fragments. (27.5 - 36.6 m) Dark green Chlorite - carbonate - sericite - quartz SCHIST banded. A zone of more dirty white quartz layers with meter scale patches of brown ankerite overprinting chlorite schist; local tightly folded quartz rich bands isoclinally @ 30.5 m. 28 - 28.5 m Light grey carbonate altered interval with 5% megacrystic euhedral pyrite cubes up to 2 cm2 of very fine grained brassy colored pyrite. At 29.4 m < 6 mm wide x-cutting pale grey green amorphous very soft fracture inil ?serpentine? 34.25 - 35 m Broken rusty FeOx rich interval with pyritic 2 mm quartz x-cutting.	lim	Str													
DM16-09	19.8	36.6	SCH-m		Dark green (grey) Chlorite - carbonate - quartz SCHIST speckled texture. Distinct change to dark green intensely chloritic banded schist that reacts strongly to HCL, has common euhedral blebs of magnetite (with rare hematitic staining associated with magnetite); unit has a speckled look due to overprinting of ragged 2 - 3 mm sized secs of carbonate - not foliated overprint after feldspars? 36.6 - 43.2 m Planar foliated rhythmic bands of carbonate altered fine grained bands and darker green chloritic bands; interval is hard and fine grained ?hornfels proximal to intrusion? 43.2 - 50.29 m Deformed fine grained interval with larger spaced bands of chlorite and white quartz / carbonate / feldspar, disseminated euhedral magnetite blebs up to 6 mm cubes throughout; 45.4 --> 47 m calc-silicate looking deformed bands of quartz with 1.5 cm rounded hematized magnetite ?porphyroblast. 48.7 - 49 m Darkest green chlorite rich zone of foliated chlorite SCHIST x-cut by 4 foliaform white and orange carbonate stringers < 2 cm wide plus stockwork zone of white calcite vein between stringers. Epidote in 1.5 cm wide quartz deformed stringer at 50.1 m. E.O.H.	carb	Str	lim	Wk			Mag		1		Up to 5% local concentrations - magnetite.		1		
DM16-09	36.6	50.29	SCH-m		(1.52 - 2.13 m) Tan colored oxidized Sericite - chlorite - quartz SCHIST oxidized top of hole completely oxidized, very weak patchy carbonate (increases down hole). (2.13 - 17.7 m) Dark green Chlorite - sericite - quartz - carbonate SCHIST fine grained. Fine grained bands of chlorite with minor quartz metamorphic segregations; patchy pervasive carbonate plus net texture overprinting of orange or white ragged carbonate blebs; generally planar foliated with local areas displaying local tight isoclinal folding of quartz rich layers. 7.5 - 7.75 m Dark green quartz poor bed with 30% porosity as < 1 mm pits (< = > to 4.7 - 7.2 m DM16 - 09) with thick coating of yellow tan clay on fractures; unit does not fiss looks like a mafic volcanic protolith. 11 - 16.45 m Common disseminated < 3 mm magnetite blebs - not aligned along foliation. 13.4 - 14.3 m Zone of rusty broken quartz stringers with > 2 x-cutting stringers + pyrite in quartz parallel to foliation. 15.9 - 16.0 m White and clear foliaform QV. 16.45 m Distinct carbonate alteration front with FeOx dominating down holefrom intense pervasive carbonate above this contact. 17.1 - 17.7 m Earthy brown FeOx rich hanging wall to QV with 5 - 7% < 2 mm rusty pyrite specs throughout pervasive FeOx limonite / goethite (and manganese on fractures). (17.7 - 18.3 m) FLT - limonitic QV rich FAULT (hanging wall to QV) with 10% orange clay gouge and 20% QV fragments up to 3 cm wide.	carb	Mod	lim	Str	Carbonate - weak, moderate to strong. Limonite - moderate to strong. MnO - weak to strong.	EPy		1 APy		0.1 Epy ranges from < 1 - 5%.		5			
DM16-10	1.52	18.3	SCH-m		Target "Dome Load" Quartz vein - Limonitic target Dome Load vein with 2 generations of pyrite, fine grained infilled of large euhedral cubes + boxwork skeletal network on fractures; vein is broken 2 cm limonitic gouge at lower contact with wall rock.															
DM16-10	18.3	18.6	QV																	
DM16-10	18.6	19.1	SCH-m		Orange brown intense FeOx SCH wall rock section within the quartz vein; at 18.62 m is a 15 mm2 rusty pyrite cube 80% infilled with secondary fine grained pyrite leaving a goethite rim - see photos. Upper contact ~50 degrees and sharp lower contact 45 degrees tca. Main "Dome Load" intersection QV with galena + pyrite; QV moderately broken. Main Dome Load QV intersection with ribbons of rusty pyrite pits + brassy euhedral pyrite along upper contact QV is milky white with limonitic fractures at 14.3 m large 18 mm galena bleb with intergrowth of fractured crassy pyrite - spec of galena surrounded by larger pyrite grain; euhedral pyrite concentrated between 19.7 - 19.8 m at footwall with common boxwork texture and openspace.	lim	Str													
DM16-10	19.1	19.8	QV			lim	Str					EPy		2 Gn		0.5 Galena < 1%.				
					(19.8 - 20.1 m) Orange brown intense FeOx SCH footwall zone of < 10% rusty pyrite cubes up to 4 mm across. 19.8 - 20.3 m Zone of up to 10% white quartz veining up to 3 cm wide at 20.1 m with irregular oriented quartz stockwork at immediate footwall contact. (20.1 - 21.1 m) Orange brown FeOx SCH footwall / limonitic fault gouge + quartz stringer 3 cm orange fault gouge 20.1 - 20.13 m. Broken SCH in fault gouge at low angle tca between 20.5 - 20.9 m with < 1 cm quartz chips interval strongly pyritic. (21.1 - 21.35 m) FLT - orange/ brown FeOx FAULT broken intense FeOx rich SCH fragments in 15% limonitic clay gouge hanging wall to main QV above; SCH fragments have common cubes of brassy pyrite up to 6 mm across and < 5% overall; broken contacts.	lim	Str	mno	Str	MnO - locally.	EPy		5		Epy ranging from 10 to 7 to 5%.					
DM16-10	19.8	21.35	SCH-m			lim	Str													

Hole number	From	To	Lithology	Texture	Lithology (written log)	Alteration	Alteration Intensity	Alteration 2	Alteration Intensity 2	Alteration Description	VG	Mineralization	Mineralization (%)	Mineralization 2	Mineralization 2 (%)	Mineralization Description	% Fol Qtz			
DM16-10	21.35	32.3	SCH-m		Dark grey green Chlorite - sericite - carbonate - quartz SCHIST oxidized. Strong pervasive carbonate alteration returns after FeOx zone around QV system by 23.2 m; generally interval is thin layers of chlorite - sericite or quartz / feldspar being a much lesser component, patchy brown ankerite. 21.35 - 23.4 m: Intense FeOx gradually decreases downhole as does euهدral pyrite concentration from 3% to 22 m then 1% overall; porous pitted beds along foliation to 22 m; 22.75 - 22.8 m is dull black Mn coated fracture with < 1 cm wide broken quartz stringer x-cut foliation and a similar fractured super FeOx fracture zone between 23.3 - 23.4 m. 25.1 - 25.5 m Small interval of dirty white thinly bedded quartz rich unit (as seen in hole DM16 - 6 and 8) with very micaceous partings - unit is highly deformed. 27.1 - 30.4 m Zone of thin cross cutting white quartz stringers (and / or dry rusty fractures) with 3 cm to 15 cm wide oxidized alteration envelopes; patchily strong pervasive carbonate. 32.0 - 32.2 m QV - 3 cm wide bright orange vuggy QV - texturally like main QV intersection with 0.5 x 2 cm long bleb galena.	carb	Mod	lim	Str	Carbonate - moderate to strong.		EPy		1						1
DM16-10	32.3	36.05	SCH-i		A little more quartz rich SCH-i was logged as SCH-f? Dirty white / grey Chlorite - quartz - sericite SCHIST gneissic texture. Quartz rich zone nd planar laminated with a discontinuous formable?? "stylolitic" lower contact; distinct decrease in pyrite concentration. 32.3 - 32.7 m Dirty white thinly laminated quartz rich interval. 32.7 - 32.8 m White quartz sweat with coarse pyrite cubes up to 8 mm. 32.8 - 36.05 m White quartz rich interval with rhythmic layers of green chlorite giving core a weak augen texture.	lim	Wk					EPy		0.5		Epy < 1%.	0.5			
DM16-10	36.05	50.29	SCH-m		Dark green grey Chlorite - carbonate - quartz SCHIST speckled texture. (samaas 36.6 - 50.1 m interval in DM16 - 09) Chloritic bands of pervasive carbonate with irregularly spaced darker green chlorite bands between more fine grained possibly hornfels layers; generally unit has disseminated euهدral magnetite cubes throughout up to 4 mm across and wispy late stage white calcite x-cutting thin stringers throughout. 36.1 - 39.6 m Common 5 mm - 1 cm wide deformed white quartz sweats with 10% epidote clots in quartz as rounded blebs often including magnetite in epidote bleb. 40.2 - 41.5 m Quartz rich mottled silicified unit (looks like calc silicate as 45.4 - 47 m DM16 - 09) with large magnetite blebs up to 4 mm and interval x-cut by 12 sheeted < 5 mm quartz / carbonate stringer. 49.20 - 49.8 m Zone of 2% brassy euهدral pyritohedrons along margin of wedge shaped with quartz sweat at 49.25 - 49.31 m + magnetite throughout. E.O.H.	carb	Mod			Carbonate - locally. Silica - strong locally.		EPy		2 Mag		3 Epy 2% and < 1% locally concentrations.		5		