Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-20	4.5	5.9	QV Zone	N			?	Grey - white spotted rubbled pieces; max - 7 cm across trace galena (?) - 3 specs in QV rubble. Local dark brown - back < 1 cm clots of MnO2 + limonite. Vugs rare, weak limonite stain.
EC16-20	13.1	13.2	QV	N		70	Yes	Off yellow - white; massive - granular - sucrosic texture with 1/2 dozen 1 cm diameter irregular vugs - stained with black MnOx. Weak rust stain along fractures. Upper contact x-cuts foliation.
EC16-20	22.2	22.23	QV	N			?	QV chip - 3 cm across.
EC16-20	23.4	23.5	QV	N			?	Crushed quartz vein interval + 20% orange - brown gouge; 1 cm chips. Milky white chips.
EC16-20	24	24.1	QV	N			?	Milky white massive quartz vein with 1 cm spaced parallel fracture set at 35 degrees tca. Vein has 5% large 4 - 10 mm square vugs - pyrite external molds; no pyrite left only veneer of black MnOx.
EC16-20	25.1		QV	N			?	3 pieces of milky white QV coated in tan brown sericite - clay gouge. 1 angular drak stained vug.
EC16-20	25.6	25.7	QV	N			?	Broken angular milky white + orange - rusty brown stained fractures. Ok 'needle like' fracture fillings at selvage of vein. Perpendicular to edge.
EC16-20	27.6		QV	N			55 No	Yellowish - white foliaform planar veinlet with off white to cream blemishes - altered faulted vein attached to sericite - quartz - SCH wall rock on foot wall side. Pale FeOx surface stain. 1.5 cm wide.
EC16-20	27.9		QV	N			?	Off white with light rusty limonite - jarosite fracture stain. Patchy pyrolusite, on outer surface (3%). 4.5 cm true thickness - planar upper and lower surfaces at 65 degrees tca. Occurs as 1 piece.
EC16-20	28.1		QV	N			?	Milky white, slightly fractured with sericite - clay gouge on downhole side. 3 cm wide.
EC16-20	30.3	30.4	QV	N			?	Milky white with 1% euhedral vugs with MnOx stain and trace euhedral pyrite specs. Broken - largest chip 3 cm across.
EC16-20	30.9		QV	N			?	Milky white - tabular shape - very weak limonite stain 1/2 cm wide - possibly foliaform.
EC16-20	31.8		QV	N			?	Milky white - weak off yellow - orange stain; 2 chips in clay - sericite gouge. Chips are 2 cm pieces.
EC16-20	32		QV	N			?	Glassy pale light grey - white; remnant wall rock attached locally.
EC16-20	33.4	33.6	QV	N			?	Milky white with tan brown sericite - clay gouge stuck to outside faces; up to 15% black irregular patches of pyrolusite. Core is broken and rubbled. Largest piece 3 cm long.
EC16-20	34	34.2	QV	N			?	Milky white quartz vein chips and pieces in sericite - clay light tan guge - weak yellow - orange FeOx staining along fractures. Rare vugs with sericite - clay gouge. Largest piece is 7 cm long and has sericite - clay gouge at 10 degrees tca.
EC16-20	34.6		QV	N			?	Gouge + 60% milky white quartz crush. 7 cm wide.
EC16-20	34.9	35	QV	N			?	Gouge + 40% milky white quartz crush 7 cm wide.
EC16-20	36.1		QV	N			?	5 x 2 cm small milky - glassy - off pale rust quartz chips. Moderate limonite strain; possible foliaform quartz veinlet.
EC16-20	37.4	37.6	QV	N			?	Numerous chips and pieces of QV - longes piece 7 cm crackled, fractured and associated with tan - orange brown gouge. 20% gouge. 10% patchy pyrolusite. Fractures filled with gouge + yellow - orange - brown limonite stain.
EC16-20	41.9	42.06	QV	N			?	50 % milky white QV chips (up to 3 cm) - 50% orange - tan clay gouge. Rare euhedral limonite blemishes.
EC16-20	45.6	45.72	QV	N			25 ?	Off white to glassy foliaform QV. 4 cm wide.
EC16-20	45.85	45.95	QV	N		20	20 Yes	Off white, milky - weak yellow-rust, vuggy with druzy quartz + 1% anhedral pyrite/ limonite. 1.5 cm wide.
EC16-20	49.5	49.53	QV	N			?	Glass of white to light grey with rare wall rock inclusions - foliaform?
EC16-20	50.8	50.93	QV	N		50	50 ?	1 - 2 cm wide foliaform QV includes 7 cm of oxidized tan wallrock with 1% disseminated, euhedral pyrite.
EC16-20	51.03	51.51	QV	N			?	Mixed interval of primarily (70%) of glassy - off white to locally creamy (k - feldspar) with noted 3 - 10% wall rock inclusions and blemishes.
EC16-20	65.53	65.6	QV	N			?	Milky white with irregular patches of 10% cream colored quartz of feldspar (?) 1 piece 9 cm long. Slickensides on planar surface (hanging wall) which is 40 degrees tca; slickensides are perpendicular to core axis; thin 3 mm "plaque" of SCH wall rock on footwall side. Trace specs of euhedral pyrite and 2 vugs (1/2 cm).
EC16-20	74.1	74.18	QV	N			40 Yes	Milky white; 2 large vugs with trace euhedral pyrite. Weak limonite stain.
EC16-21	12.45	12.54	QV	N				Several pieces of milky white quartz - largest one 5 cm with 1% anhedral pyrite + dark specs. Weak yellow-rust stain.
EC16-21	21.34	21.42	QV	N		45	No	Glassy pale grey to off white foliaform quartz sweat with 15% muscovite - chlorite SCH wall rock fragments 6 cm long.
EC16-21	22.91	22.98	QV	N				Off white to milky white, semi - translucent with 'chalcedonic - like' warped parallel fine lines in the quartz. They are perpendicular to wall. Broken: 6 cm.
EC16-21	29.28	29.42	QV	N			35 No	Off white to creamy white quartz vein with dark rusty brown irregular and accicular vugs (10%) containing limonite and kaolinite (broken down feldspar). MnOx also along fracture surfaces. Maybe a large quartz sweat + cross cutting (??) quartz vein. 13 cm long.

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EC16-21	30.17	30.26	QV	N		70	No	Off white broken QV 8 cm long. Moderate rust staining along fractures.
EC16-21	31.39	31.54	QV	N			?	Milky white to light grey with very weak rust along fractures. Single piece of core - broken, 13 cm long.
EC16-21	34.22	34.33	QV	N			?	Milky white with uniform spaced (1 cm apart) planar fractures with light limonite stain. Trace euhedral pyrite.
EC16-21	34.85	35.05	QV	N			?	White - light beige mixed chips (85%) up to 4 cm across + light beige sandy gouge and chlorite SCH rock chips (15%).
EC16-21	35.75	36.4	QV	N			?	White quartz + fine sericite - chlorite SCH rock crush (25%) Broken pieces - largest 7 cm long has 10% irregular vugs with jarosite - limonite intense stain and clay.
EC16-21	45.42	46.5	QV	N		55	?	Complex foliaform quartz 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.
EC16-22	11.27	11.36	QV	N			?	Abundant milk white quartz rubble.
EC16-22	14	14.2	QV	N			Yes	Dark to light grey and white quartz vein 2 cm wide.
EC16-22	15	15.1	QV	N			Yes	Dark to light grey white quartz vein 1.5 wide. Locally pitted. Sharp planar contact.
EC16-22	31.39	31.43	QV	N				
EC16-22	54.57	54.67	QV	N			?	Abundant milk white quartz rubble.
EC16-23	21.02	21.05	QV	N		80	Yes	3 cm wide off white, massive with crystal boundaries; 5% calcite. Sharp contacts.
EC16-23	22.49	22.495	QV	N		85	Yes	1/2 cm wide veinlet, comprising quartz (+/- calcite) with FeOx coating on fracture surfaces.
EC16-23	24.25	24.29	QV	N			Yes	4 cm wide, off white 2 green (carbonate), two - fold texture; massive to crackled and hanging wall side has pale yellow - green carbonate. Selvages contain pyrolusite.
EC16-23	26.57	25.575	QV	N			Yes	1/2 cm wide, grey - brownish fracture filling of quartz - carbonate; carbonate vugafied. Trace euhedral pyrite / hematite loosely associated with selvages and partly disseminated into wall rock.
EC16-23	42.42	42.44	QV	N		60	Yes	2 cm wide light buff calcite with greyish quartz, inor greenish ankerite. crackled.
EC16-23	43.92	43.94	QV	N	70	70	Yes	2 cm wide mostly greyish quartz, with light grey bladed angel-wing textured calcite. Pyrolusite along selvages.
EC16-23	46.48	46.49	QV	N	65	65	Yes	1 cm wide, quartz - calcite, banded - ribbon textured, off set; diffuse selvages.
EC16-23	48.98	49.18	QV	N			No	Reddish grey, massive, carbonate fracture fillings crackled; foliaform. Possibly in nose of fold.
EC16-23	51.64		QV	N	70	70	Yes	Dirty off white mixed with decomposed wall rock; diffuse breccia texture. Ankerite selvage; zipper texture.
EC16-23	54.29	54.34	QV	N	75		Yes	5 cm, grey and dark green, WRI and cut through with ankerite; weak envelope - 2 cm.
EC16-23	56.62	57.04	QV	N			?	Mottled grey off white with irregular patches of darker grey and tan; crackled with wavy WRI; minor interstitial tan ankerite. Rare pits of limonite after pyrite. Busy. Trace specularite. There is a footwall and hanging wall ankeritic alteration envelope. 30 - 40 cm wide.
EC16-23	59.03	59.07	QV	N			?	4 cm wide multi-phase ribbon - vuggy textured QV with segregated 1/2 cm bands of sucrosic quartz with fine disseminated pyrite (trace) with vuggy milky quartz as a center band.
EC16-23	59.3	59.315	QV	N	80	80	Yes	1.5 cm wide, off white to grey, massive, local pyrolusite along selvage and along fractures within veinlet - 2%.
EC16-23	59.95	60.06	QV	N	85	85	Yes	10 cm long quartz - calcite - Fe carbonate vein. Crackled with paler calcite infill and unusual sub-parallel ankeritic / Fe carbonate stringers on hanging wall side. Sharp contacts. Rare pyrite filling fractures with FeOx halo- blebby.
EC16-23	60.2	60.205	QV	N	80	80	Yes	0.5 cm wide light grey veinlet with black pyrolusite selvage and ankerite.
EC16-23	65.19	65.34	QV	N	25	25	No	5.5 cm true thickness QV or large "sweat" with 10% dark elongated WRI. 5% carbonate - MnO2 interstitial fill. Trace anhedral pyrite along fractures.
EC16-23	68.82	68.825	QV	N	80	80	Yes	0.5 cm wide off white, with local intense rust, quartz stringer in a planar joint set - uniformly spaced at 5 cm. Limonite - MnO2 filled vugs (25%) + limonite - MnO2 set. These joint fillings are noted between (68.82 - 69.36 m) and discolor the color to a weak rust colour.
EC16-23	69.8	70	QV	N	85	85	Yes	Similar to above stringer. This interval contains 3 x 3 - 5 mm wide off set, rust stained. The stringers of quartz are mottled and the fine selvages comprise limonite +/- MnO2.
EC16-23	73.91	74.52	QV Zone	N			?	Similar to above veinlets but now larger. This interval contains 4 x 1 - 3 cm quartz +/- ankerite cross cutting veinlets. Discoloring wall rock to a rusty grey - brown color. The footwall veinlet contains WRI in the central part of the veinlet.
EC16-23	80.47	80.51	QV	N	75	75	Yes	4 cm wide (true thickness) off white quartz with fine white calcite stringers running down the middle. 10% WRI + pyrolusite (rare).

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EC16-23	93.82	94.08	QV	N			?	Off white massive quartz with interstitial clay + ankerite infill fractures stained with limonite. Minor pyrolusite on fracture surfaces.
EC16-24	6.5	6.67	QV	N	60	65	No	Grey - white sugary concentrated quartz, oxidized drusy cavities.
EC16-24	8.93	9.2	QV	N	55	60	No	Grey - white, massive with drusy cavities 7 cm wide with 3-5 0.5 cm on either side.
EC16-24	17.5	18.44	QV	N			?	Include another x-cutting veinlet.
EC16-24	17.9	18.44	QV	N			?	Disrupted foliation, white massive crackled quartz with minor FeOx'd pyrite along selvages.
EC16-24	22.83	23.08	QV	N			?	Grey massive quartz - carbonate vein in zone of disrupted foliation. Appears to partially cross cut foliation. Drusy cavities possibly dissolved calcite.
EC16-24	28.66	29.18	QV	N	50	65	?	28.66 - 28.8: quartz > carbonate foliaform veinlets with minor interstitial schist. 28.85 - 28.97: irregular possibly x-cutting quartz carbonate vein with FeOx fractures.
EC16-24	35.56	35.76	QV	N			?	Fracture fill: ankerite + quartz cutting ankerite quartz - carbonate sweat.
EC16-24	35.9	36.2	QV	N			?	Quartz - carbonate foliaform veins cut by grey quartz - carbonate vein. Interval has folded foliation. Chlorite - muscovite selvages.
EC16-24	41.52	41.72	QV	N	45	70	No	Orange - grey, massive + fracuted, quartz - carbonate + ankerite vein / sweat, vuggy.
EC16-24	55.38	55.42	QV	N	30		?	Orange - white fractured quartz boudin in fine grained chlorite + muscovite matrix.
EC16-24	57.46	57.48	QV	N	80	75	No	Vuggy, orange quartz vein in pyritic schist.
EC16-24	60.35	60.4	QV	N	50	45	Yes	Orange - off white coarse grained quartz - carbonate veinlet, sharp selvages x-cuts foliation but appears to continuous with a foliaform sweat it cuts.
EC16-24	71.12	71.22	QV	N	40	35	Yes	Off white quartz - carbonate (discrete patches) veinlet cutting across foliation between two sweats. Sub parallel to fine carbonate fracture fill on sides.
EC16-25	4.8	4.89	QV	N	70	65	Yes	
EC16-25	4.95	5.34	QV	N		40	?	
EC16-25	5.48	5.66	QV	N	80		?	
EC16-25	6.78	6.83	QV	N	80	85	Yes	
EC16-25	7.3	7.38	QV	N	60	70	Yes	
EC16-25	7.68	7.78	QV	N	40	30	Yes	
EC16-25	12.5	12.8	QV Zone	N				
EC16-25	13.52	13.73	QV	N	80		?	
EC16-25	19.75	19.76	QV	N	80	75	Yes	
EC16-25	20.27	20.39	QV	N	50		Yes	
EC16-25	24.87	24.93	QV	N	80		Yes	
EC16-25	28.24	28.44	QV	N	60	60	Yes	
EC16-25	29.86	29.87	QV	N	85		Yes	
EC16-25	29.87	30.29	QV	N	60		Yes	
EC16-25	31.81	31.93	QV	N	75		Yes	
EC16-25	37.8	38.16	QV	N	15	25	Yes	
EC16-25	39.16	39.26	QV	N		80	Yes	
EC16-25	46.96	46.97	QV	N	80		Yes	
EC16-25	60.28	60.33	QV	N	75	80	Yes	
EC16-25	67.61	67.81	QV	N	15	35	?	
EC16-25	75.05	75.66	QV	N	25	50	No	
EC16-25	76.26	76.32	QV	N	45	45	Yes	
EC16-25	76.4	77.54	QV	N	40	30	?	
EC16-25	82.81	82.98	QV	N	30	15	Yes	
EC16-25	83.26	83.33	QV	N	40	45	Yes	
EC16-25	83.94	83.95	QV	N	40	45	Yes	
EC16-25	86.02	86.03	QV	N			Yes	

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-25	88.15	88.3	QV	N	30	30	No	
EC16-25	91.41	91.61	QV	N	15	20	Yes	
EC16-25	94.19	94.2	QV	N	6	60	Yes	
EC16-25	94.67	94.68	QV	N	80	75	Yes	
EC16-25	99.78	100.28	QV	N	25	48	No	
EC16-25	101.86	101.93	QV	N		70	?	
EC16-25	104.48	104.75	QV	N	65	20	?	
EC16-25	110.43	110.45	QV	N	70	75	?	
EC16-25	112.53	112.54	QV	N	35	40	?	
EC16-25	117.15	117.28	QV	N	60	60	Yes	
EC16-26	7.18	7.27	QV	N	35	30	Yes	Off white, massive quartz vein with minor ankeritic fractures. Limonitic selvage.
EC16-26	8.36	8.46	QV	N	50		Yes	Rubbly / brown quartz vein massive white.
EC16-26	18.84		QV	N			Yes	Discontinuous white quartz fracture fill/ veinlet.
EC16-26	19.81	20.08	QV Zone	N	50	55	No	Set of weakly pyritic foliaform parallel quartz veins, rusty grey.
EC16-26	31.64		QV	N			Yes	Grey - white quartz veinlet irregular boundaries appears to cut foliaform.
EC16-26	31.88	32	QV	N		65	?	Patchy buff fractured quartz vein, pyrite selvages, part of chaotic ~25% WR Zone.
EC16-26	32.08	32.15	QV	N		35	Yes	Off white quartz vein, weak pyrite in margins.
EC16-26	33.78	33.96	QV	N	45	80	?	Massive white quartz vein with wispy wall rock fragments.
EC16-26	36.41	36.51	QV	N	35	35	Yes	Mottled grey - white, quartz - carbonate - pyrite vein cutting + deforming fabric.
EC16-26	37.3	37.38	QV	N	35	40	Yes	Grey quartz vein, selvages dark, no pyrite.
EC16-26	45.07	45.88	QV Zone	N			No	Series of foliaform veins cut by quartz stringers in fold axis.
EC16-26	45.82	45.88	QV	N		70	No	Fragment of mottled + fractured orange white quartz vein, minor pyrite, strongly oxidized.
EC16-26	54.79	54.86	QV	N	40	40	No	Fractured rusty quartz foliaform vein.
EC16-26	55.89	56.02	QV	N	40	20	Yes	Quartz - carbonate mottled grey vein, minor pyrite.
EC16-26	59.31	59.37	QV	N	70	65	No	Patchy orange grey quartz vein cut by limonitic fractures. Pyrite + Fe carbonate after wall rock fragments (?) - wispy.
EC16-26	63.22	63.35	QV	N	45	35	Yes	Massive grey and tan quartz - Fe carbonate vein, pinch and swell, weakly pyritic.
EC16-26	66.15	66.2	Other	N	30		Yes	Carbonate string x-cutting quartz sweat. Pyrite in selvage. Rusty.
EC16-26	67.52	67.88	QV	N	10	15	?	White + grey wavy brecciated carbonate vein with clasts of quartz + wall rock.
EC16-26	76.76	78	QV	N			?	Quartz vein breccia, oxidized irregular and non - planar.
EC16-26	77.38	77.47	QV	N	40	45	?	Grey + green quartz - chlorite vein, chlorite darker where vein cuts wall rock clasts. Pyrite in selvage fresh.
EC16-26	81.13	81.45	QV	N	80	85	Yes	Mottled grey - tan quartz - carbonate vein, wall rock clasts, pyrite + tan alteration in selvages of stringer splaying off.
EC16-26	81.85	82.08	QV	N			Yes	Grey and white fractured quartz veins ~60% irregular stockwork. Trace oxidized pyrite cubes.
EC16-26	82.43		QV	N	80		Yes	Mottled + fractured orange + grey quartz vein / fractures, pyrite oxidized.
EC16-26	87.17	87.28	QV	N	35	30	Yes	Grey + green + orange, wavy quartz - carbonate - chlorite veinlet, trace pyrite in vein + selvages.
EC16-26	87.75	88	QV	N	20	30	Yes	Grey with orange strains pitted and fractured quartz vein, its likely carbonate, pyrite (oxidized) along some selvages + within vein.
EC16-26	89.31	89.32	QV	N	55	55	Yes	Tan - grey speckled quartz - Fe carbonate - pyrite veinlet.
EC16-26	90.43	90.49	QV	N	60	80	Yes	Grey + tan with black edges, massive quartz vein, dark mineral coloring. Edges of vein, pyrite in wall rock fragments, Fe - carbonate in selvages.
EC16-26	91.28	91.31	QV	N	80	70	Yes	Grey crackled quartz vein, cut by white fine grained phase at core, with pyrite in selvages + darker quartz at margins. ~1 cm wide. Bleached 3 mm altered halo locally.
EC16-26	96.44	96.49	QV	N	50	55	Yes	Mottled grey + tan, zipper textured Quartz - carbonate - pyrite vein. Dark pyritic + pyrolusite selvages. Pyrite - carbonate appears to infill quartz crystals.
EC16-26	97		QV	N			Yes	White jagged quartz vein, oxidized euhedral pyrite in selvages.
EC16-26	97.77	98	QV	N			No	Folded mottled grey + white multi-phase foliaform vein with oxidized pyrite + Fe carbonate.
EC16-27	5	5.04	QV	N			Yes	4 cm wide broken core of milky white, massive quartz with diffuse selvage.

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EC16-27	5.08	5.1	QV	N		85	85 Yes	2 cm wide broken core of milky white, massive quartz. Trace euhedral pyrite veinlet. Weak limonite stain along selvage trace % os.
EC16-27	5.3	5.35	QV	N			90 Yes	5 cm wide broken core of milky white, massive quartz.
EC16-27	5.74	5.86	QV	N			80 Yes	~8 cm wide broken core of milky white, massive quartz x-cutting a foliafrom irregular grey - white quartz sweat - hybrid QV. Trace OS.
EC16-27	6.35	6.44	QV	N			70 Yes	9 cm wide broken core of milky white, massive quartz, weak limonite stain on fractures.
EC16-27	6.49	6.51	QV	N			?	2 cm wide broke core of milky white, massive quartz.
EC16-27	6.75	6.754	QV	N			50 Yes	4 mm wide, irregular quartz stringer; off white, massive.
EC16-27	7.2	7.24	QV	N		90	90 Yes	4 cm wide; off white, massive quartz with parallel contacts. Trace OS.
EC16-27	19.86	20.22	QV	N			No	Off white to mottled whitish grey - cream, crackle with irregular - lenticular contact 5% OS, 3% WRI.
EC16-27	20.78	20.79	QV	N		90	90 Yes	1 cm wide dirty dark beige - brown coarse grained calcite - quartz veinlet. Different eisode than veinlets above, 30% OS, older generation?
EC16-27	26.06	26.1	QV	N		80	80 Yes	4 cm wide, mottled off white - light grey dirt brown, crackle - breccia, re-healed with limonite + calcite interstitial to the quartz. Quartz - calcite veinlet of the 'older generation' similar to QV at 20.78 m.
EC16-27	31.01	31.2	QV	N			No	Mottled off white - grey fracture quartz, massive, with 5 x 10 mm vugs just in side selvage. 7% OS; 3% WRI, weak 5% limonite specs.
EC16-27	34.76	34.775	QV	N		90	90 Yes	1.5 cm wide white, fracture, massive quartz with 25% OS stained dark.
EC16-27	36.24	36.245	QV	N			90 ?	1/2 cm wide, grey with pale rust, quartz. Hybrid with quartz sweat - no calcite. 3% OS. Old generation??
EC16-27	37.15	37.22	QV	N			47 No	7 cm foliaform white and clear - grey quartz sweat, stylolitic LC, fractures are pitted with limonite and lesser Mn coatings.
EC16-27	37.8	37.81	QV	N		47	Yes	1 cm wide white quartz / orange carbonate stringer with common very vuggy rusty selvages and quartz blows out along foliation and second fracture plane at 37.74 m; trace very fine grained pyrite locally.
EC16-27	40.4	40.405	QV	N			15 No	Thin 0.5 cm white quartz / carbonate veinlet.
EC16-27	41.05	41.058	QV	N		35	Yes	8 mm grey quartz with trace pyrite (x-cut) sericite selvages.
EC16-27	41.15	41.157	QV Zone	N			No	4 sub parallel < 7 mm wide discontinuous clear grey quartz stringers with siderite, trace pyrite.
EC16-27	41.4	41.8	QV	N			No	Zone of intense foliaform discontinuous quartz sweats up to 30% of interval.
EC16-27	44.1		QV Zone	N			?	Zone of intense quartz sweats, discontinuous milky white, locally stylolitic, rusty, sericite clots at margins 44.10 --> 44.6 m.
EC16-27	47.75	47.79	QV	N			12 No	4 cm foliaform white quartz vein 10% wall rock inclusions, rust, Mn on fractures.
EC16-27	48	48.02	QV	N			30 No	< 2 cm wide quartz stringer along fol rusty selvages, fractured limonitic fractures.
EC16-27	48.22	48.74	QV	N			?	Brecciated quartz ?sweat? boudinage? and jigsaw breccia of older foliaform sweat with rusty pits and fractures with 10% open space (in hanging wall of nugget vein proper below).
EC16-27	49.2		QV	N			40 No	Orange tan colored quartz / carbonate stringer < 3 mm along foliation with chloritic 1 mm selvages; associated 2 cm carbonate alteration envelope; epidote at hanging wall.
EC16-27	49.4	49.57	QV	N		47	47 Yes	White coarse grained euhedral quartz crystal growth up to 1 cm infilling large open space cavities; < 5% WRI. Lower contact has 1% 1 mm sub-hedral rusty pyrite cubes; open space cavities up to 3 cm2 lined with cockade quartz thin Mn coating.
EC16-27	52.55		QV	N			Yes	White massive cross cutting vein; minor open space; < 1 cm wide.
EC16-27	52.6	52.72	QV	N			90 Yes	White massive, cross cutting quartz vein, 12 cm wide, < 5% open space; tight unfractured vein; trace pyrite at lower contact; 2% euhedral pyrite in foot wall SCH interval.
EC16-27	53.2	53.24	QV	N			85 Yes	White cross cutting quartz vein with < 1% 2 mm euhedral pyrite rusty cubes along upper contact and dull grey ?graphite? coating fractures. < 5% euhedral pyrite in foot wall 35 cm interval; 2 < 1.5 cm wide quartz stringer lead from main quartz vein into FW.
EC16-27	53.6	53.74	QV	N			80 Yes	Milky white coarse grained "tight" vein with < 5% 4 cm open space with coarse euhedral crystal infill; trace limonite.
EC16-27	53.9	53.94	QV	N			Yes	4 cm wide cross cutting quartz vein with cockade infilling < 1 cm open space cavities; trace ?fine grained pyrite.
EC16-27	54.23	54.38	QV	N			Yes	15 cm fractured milky white quartz vein with more very fine grained pyrite than veins along, rusty < 1% pyrite and common Mn coating fractures, upper and lower contacts irregular and euhedral pyrite in selvages to vein.
EC16-27	65		QV	N			Yes	Thin < 2 cm quartz/ carbonate deformed stringer with 10% rusty pits, trace fine grained pyrite.
EC16-27	67.81	67.96	QV	N			85 Yes	White tight quartz vein with 5% non rusty open space cavities, no sulphides rare limonite ?in hinge of fold? yet clearly x-cutting common oxidized pyrite cubes down hole.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-27	70	70.17	QV	N		75	Yes	Rusty white quartz vein with common fractures, trace very fine grained pyrite in open space cavity.
EC16-27	72.82	73.02	QV	N			Yes	QV rusty very broken; 20% wall rock inclusion, intense Mn stained, limonite / goethite.
EC16-27	77.1	77.2	QV	N			Yes	White quartz with 10% rusty open space / WRI (looks foliaform but irregular contacts). No sulphides observed , Mn and chlorite along selvages.
EC16-27	81.4	81.9	QV	N			No	Zone of 6 quartz lenses fine grained grey Mn?
EC16-27	89.6	89.63	QV	N		20	No	3 cm white quartz stringer laong 20 degrees tca fol.
EC16-27	90.5	90.57	QV	N	80		Yes	7 cm white mottled quartz vein, fractured, stylolitic selvage.
EC16-27	95.45	95.48	QV	N			No	3 cm quartz sweat, Mn hairline selvage, fracture coatings.
EC16-28	5.12	5.3	QV	N	24	35	Yes	White with orange streaks massive, pitted quartz vein. Oxidized euhedral pyrite in selvages. Trace dark wispy sulfides in quartz include vugs with terminated quartz crystals.
EC16-28	6.32	6.38	QV	N			Yes	Grey irregular quartz - ankerite veinlet, part of se from top of interval to 10.5 m. Selvages weakly oxidized.
EC16-28	10.05	10.13	QV	N	25	35	Yes	Tan + grey quartz - ankerite - pyrite veinlet (2 mm) ~ 4 mm dark selvages + pyrite.
EC16-28	21.81	21.96	QV	N			Yes	Nugget vein. White with orange stain, massive + fractured. Limonitic quartz vein. At least 2 phases with grey quartz fragments in white matrix. Pitted ~ 3% carbonate? cut by oxidized gouge fractures.
EC16-28	22.46	22.76	QV	N	78	30	?	White + orange massive quartz vein, pitted where altered WRI removed, preserved ??? are limonitic + pyrolusite with oxidized euhedral pyrite.
EC16-28	22.86	23.1	QV	N		85	Yes	White + orange massive + fractured quartz vein, with 3% WRI. Fractures limonite + pyrolusite. X-cuts earlier, grey vein in fold.
EC16-28	23.98	24.08	QV	N	50	55	Yes	Buff + grey fractured quartz vein. Cracks clean. Wall rock fragments with pyrolusite.
EC16-28	26.89	27.1	QV	N	55		No	Mottled grey tan fractured + folded. Quartz - carbonate folded vein, 5% dark sulfide? in quartz.
EC16-28	55.6	55.69	QV	N	35	45	?	2 - 20 mm irregular white + tan quartz + carbonate veinlet, with breccia quartz texture (quartz fragments in vein quartz), weakly pyritic selvages.
EC16-28	60.4	61.11	QV	N	15	18	Yes	2 mm wavy patchy tan - white + brown, banded quartz - carbonate + pyrolusite selvages oxidized. Cuts foliaform but looks old.
EC16-28	67.22	67.29	QV	N		48	Yes	Grey breccia textured carbonate - quartz veinlet (quartz fragments in carbonate) with irregular boudins???
EC16-28	74.87	74.97	QV	N	38	34	Yes	Grey + white patchy fractured quartz - carbonate vein. Carbonate appears to infill quartz.
EC16-28	75.2	75.38	QV Zone	N	35	36	Yes	Discontinuous carbonate quartz stringers, FeOx'd pyrite cubes trace in selvages. Set of 3.
EC16-29	3.1	3.22	QV	N			?	Mottled grey + white quartz vein massive with 2% WRI as altered wisps. Pyrolusite + FeOx along WRI + fractures. Trace pyrite in vein quartz.
EC16-29	3.5	3.62	QV	N				Grey massive + with layers of schist (1 - 3 mm thick, 3%) quartz vein, fractured. 2% oxidized pyrite clusters in schist inclusions.
EC16-29	9.46	9.49	QV	N	72	72	Yes	1 cm wide mottled pink tan + grey carbonate - quartz vein, pyrite trace in vein fresh + oxidized clusters of fine cubes < 1 mm. Selvages dark (fine sulfide?) for 2 mm into chloritic layers in schist.
EC16-29	9.95	9.98	QV	N	61	85	Yes	5 mm wide striped grey with tan pink core fragmental carbonate. Quartz veinlet, sub mm quartz fragments in calcite matrix.
EC16-29	9.99	10.07	QV	N	22	22	Yes	1 mm grey multi-phase quartz - carbonate - pyrite veinlet (quartz in carbonate matrix).
EC16-29	10.33	10.38	QV	N	73	80	Yes	3 cm wide irregular carbonate - quartz brecciated sweat shot through with tan calcite veinlets. Pyrite in calcite, trace euhedral.
EC16-29	12.95	12.97	QV	N	80	68	Yes	2 mm quartz - carbonate trace pyrite (2%, euhedral) veinlet grey tan with irregular saw tooth contacts. Quartz veinlet splays off ~ 30 degrees uphole.
EC16-29	36.99	37.9	QV	N	0		No	Orange - grey fractured / crackled quartz foliaform vein, parallel to core axis. Minor carbonate + pyrolusite.
EC16-29	37.88	37.9	QV	N	88		Yes	
EC16-29	49.22	49.3	QV	N	36	75	Yes	Grey + orange crackled quartz vein cutting foliation + quartz sweat. Cut by lattice of sub - mm oxidized carbonate fractures. Trace oxidized pyrite.
EC16-29	54.23	54.25	QV	N	76	85	Yes	Mottled grey + pink tan quartz - carbonate veinlet, trace oxidized pyrite. Irregular late? fractures down vein with FeOx. Selvages sharp + un-altered. 1% WRI --> chlorite.
EC16-29	55.35	55.47	QV	N	50	45	No	Massive patchy orange - grey quartz vein, foliaform but with 1% euhedral pyrite in selvages.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-30	21.09	21.13	QV	N	72	75	Yes	Fractured rubbly quartz vein, mostly lost during drilling.
EC16-30	41.2	41.31	QV	N	62	70	Yes	Crackled quartz vein with brown carbonate pits + oxidized selvages.
EC16-30	54.25	54.39	QV	N	66	45	Yes	Grey brecciating quartz vein WRI fragment 10 cm, angular + surrounded by quartz vein. Oxidized pyrite in selvages including clot 1 cm wide. No pyrite within quartz vein butr 5 - 10% along selvages, in stringer + in WRI matrix.
EC16-30	55.12	55.3	QV	N	60	34	Yes	Grey, massive quartz vein with limonitic fractures + pits.
EC16-30	63.78	63.82	QV	N	80	66	Yes	Grey - white massive quartz > carbonate vein, fine grained euhedral pyrite oxidized in selvage (trace) pits in carbonate crystals.
EC16-30	64.2	64.27	QV	N	50	40	Yes	Light grey appears bi-phase with fine quartz crystals in fine quartz matrix quartz vein, euhedral pyrite oxidized within vein + in selvages, 2%.
EC16-30	69.08	69.29	QV	N	54	35	?	Massive white quartz vein, possibly x-cutting but maybe fold axis surat. carbonate pits very fine oxidized pyrite + in selvages. Carbonate pits include 6 x 2 cm uphole.
EC16-30	69.26	69.42	QV	N	65	25	Yes	White - grey quartz vein with finely crackled quartz texture, anhedral pyrite in selvages.
EC16-30	69.63	69.82	QV	N	21	13	Yes	White - grey massive weakly fractured + pitted quartz vein down core axis weakly carbonate + pyrite selvages.
EC16-30	70.43	70.56	QV	N	70	65	Yes	White massive quartz vein, trace euhedral oxidized pyrite in quartz, 3% in selvages associated masses of 1 mm cubes.
EC16-30	70.77	70.84	QV	N	33	38	Yes	White massive quartz vein, carbonate pits, trace oxidized euhedral pyrite in selvages.
EC16-30	71.3	71.63	QV	N	75	30	?	White massive quartz vein very weakly oxidized on fractures but without sulfides.
EC16-30	71.64	71.8	QV	N	20	15	Yes	2 cm grey quartz vein at low angle tca, part of network of veins brecciated schist. Brown carbonate pits 1 x 3 mm 1%, pyrolusite 1% on fractures.
EC16-30	71.67	71.81	QV	N	70	20	Yes	Grey white quartz vein, massive, part of 71.64 - 71.80? 4 cm wide, irregular, no sulphides.
EC16-30	71.82	71.84	QV	N	71	68	Yes	2 cm wide massive white quartz vein, no sulphides.
EC16-30	72.44	72.48	QV	N	40	50	Yes	4 mm wide Quartz with carbonate pits vein, extends from end of dry fracture uphole.
EC16-30	72.6	72.66	QV	N	60	60	Yes	1 cm wide pitted dark grey brown fracture / quartz vein, selvage 5 mm dark green with 1 mm euhedral oxidized pyrite.
EC16-30	73.58	73.65	QV	N	40	45	Yes	1 cm wide quartz - carbonate mottled grey vein with 5% WRI --> chlorite + carbonate selvages dark for ~ 3 mm. Minor oxidized euhedral pyrite.
EC16-30	74.09	74.14	QV	N	55	60	Yes	Fractured quartz - carbonate veinlet with ribbon texture (brown grey walls, grey center), pyrolusite with pitted carbonate. Dark selvages 1 mm wide.
EC16-30	76.03	76.13	QV	N	22	25	Yes	Orange + grey quartz vein, clean selvages.
EC16-30	76.86	77.23	QV	N	10	12	Yes	Irregular boundaries (pinch and swell) quartz veinlet (grey) lower core axis.
EC16-31	5.94	6.01	QV	N			Yes	White - faint orange, massive QV with oxidization fractures 2 cm apart parallel tca, oxidized selvages with pyrolusite.
EC16-31	6.19	6.24	QV	N			Yes	Off white tan QV; extensional texture with quartz crystals pointing from wall to core. Selvages not altered.
EC16-31	10.05	10.15	QV	N			Yes	White and patchy orange brown, massive QV with discont. pyrolusite fractures and split by oxid fracts.
EC16-31	13.72	13.77	QV	N			Yes	Off white and dark grey - tan, massive QV with 20% WRI - wisps and blebs up to 1 cm. WRI carb + py altered, pyrite, euhedral, oxidized + 3% within WRI.
EC16-31	16.1	16.24	QV	N			?	Grey, fragmented boudinaged QV, WRI ~ 10% altered (cb + clay), possibly foliaform.
EC16-31	57.08	57.11	QV	N				Qtz carb brecc. vein. Selvages (above and below ints) with increased cubic pyrite, oxidized.
EC16-31	57.23	57.3	QV	N				Qtz carb vein
EC16-32	5.23	5.32	QV	N				White - grey crackled quartz vein, pitted with 1 mm wisps of WRI parrallel to contacts. Strongly pyritic selvages.
EC16-32	5.42	5.47	QV	N				Part of network in above interval, hybrid vein. Grey crackled, coarse grained qtz vein.
EC16-32	11.26	11.31	QV	N			Yes	White massive QV, cutting foliation and sweat, chlorite WRclasts, pyrite selvages 5%.
EC16-32	12.25	12.38	QV	N			Yes	Gray and white QV cut by square tooth fractures with WRI 10%; limonitic and pyrolusitic selvages.
EC16-32	16.32	16.45	QV	N				Fractured with fault gouge; possibly bi-phase quartz (frags in fine grey matrix). Mottled grey and white quartz vein, fractured (pyrolusite and limonite) at uphole and down hole contacts. Fractures parallel to walls, limo + clay. Selvages with trace pyrite cubes.
EC16-32	16.6	16.7	QV	N				Hybrid? appears to be folded + cross cuts foliation; grey with orange contacts qtz vein, massive, 4% oxidized pyrite in WR halos. @ 16.70 - VG, 1 mm clot smeared by saw, edge of pyrite crystal in vein wall
EC16-32	17.2	17.29	QV	N				White massive with WR brecc clasts; WRI ~ 15% wisps
EC16-32	17.71	17.78	QV	N				Grey qtz vein with stylolitic pyrolusite fractures, faint limonite but weak.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-32	20.47	20.58	QV	N				Two 2 cm wide QV likely part of same vein. Mottled gray and white with pyrite? cb? pits alogn selvages limonite + oxidized pyrite along selvages.
EC16-32	57.8	57.91	QV	N				Possibly foliaform quartz. Rubbly and oxidized.
EC16-32	57.91	58.1	QV	N				Possibly foliform quartz vein.
EC16-32	57.91	58.1	QV	N			?	Irregular quartz + carbonate? (brown pits) vein possibly foliaform. Weakly limonite selvages.
EC16-33	10.38	10.41	QV	N				Mottled grey + tan - white QV, WRI tabular, brecciated from vein wall (altered --> CB + pyrite {pits}). Selvages yritic 2-3%
EC16-33	10.43	10.61	QV	N				White and grey massive quartz vein, multi-phase with dark grey + breciated WR selvages, 1.5 cm + massive white core, wispy WRI --> tan FE-carb? (no reaction) + pyrite.
EC16-33	23.03	23.08	QV	N				Mottled dark gray quartz vein, pyrolusite + CB selvages, trace pyrite + limonite after WRI.
EC16-33	23.13	23.21	QV	N				White - grey massive quartz vein, coarse grained blocky quartz, trace fine pyrite in vein, strong pyrite in halo.
EC16-34	9.1	9.22	QV	N		60	Yes	White quartz vein with limonite coated fractures 90 degrees to lower contact; 2 mm intensely rusty ?pyrite pits - cubic shaped remnant outlines completely oxidized, 4% overall in quartz - (8 cm altered section between QV;s).
EC16-34	9.3	9.41	QV	N		55	Yes	Milky white quartz vein with 1 cm FeOx clay gouge along lower contact; carbonate along along lower contact; carbonate also along lower contact.2% euhedral galena (? with oxidized pyrite pits) up to 2 x 1 cm.
EC16-34	13.9	13.91	QV	N		70	Yes	2 - 2 c m x-cutting quartz with nice slickenside plane on lower contact; 2% grey pyrite? in rusty oxidized boxwork.
EC16-34	14.07	14.08	QV	Y	70		Yes	1 cm x-cutting white quartz vein, 3% dull grey fine grained galena within quartz, common rusty open space (spec of VG ???)
EC16-34	14.5	15	QV Zone	N				Fault zone with 1 cm wide quartz fragments and associated FeOx, rusty pyrite blebs on quartz selvages.
EC16-34	15	15.2	QV Zone	N		45	Yes	20 cm zone of silicified and (clay altered) granitic Hanging wall to main violet vein with 7 1 mm - 1.5 cm wide x-cutting quartz stringers stockwork zone.
EC16-34	15.2	16.86	QV	N	60	51	Yes	QV - main violet vein intersection milky white with orange limonitic fracture coatings; local open space cavities <1% galena, < 6 mm cubes and lesser oxidized pyrite near short intervals of sericite altered host fragments.
EC16-34	15.9	15.91	QV Zone	N		58		QV stockwork zone > 5 sub parallel x-cutting white quartz stringers cutting host interval within main QV Violet vein; < 1% total sx of coarse euhedral galena and oxidized pyrite cubes and blebs concentrated near quartz stringer selvages.
EC16-34	16.86	16.87	QV Zone	N	60		Yes	QV stringers sheeted iwht 10 / m gradually decreasing down hole away from violet vein; quartz stringer cut by later earthy orange carbonate stringers.
EC16-34	29.3	29.4	QV Zone	N		70	Yes	10 cm zone of three sub parallel quartz stringers up to 1 cm wide with open space.
EC16-34	76.8	76.805	QV	N			?	0.5 cm quartz vein infill with 3 mm pyrite at center of vein - 20 degrees tca ?PEG
EC16-35	7.35	8.8	QV Zone	N			No	Series of 5 sheeted < 4 mm wide clear quartz sub parallel to foliation; locally displaced 5 mm ?PEG dykes ?; clots of rusty pyrite at quartz stringer selvages as 3 mm cubes.
EC16-35	12.84	12.845	QV	N			Yes	Non planar contacts; 5 mm wide quartz and calcite cross cutting fracture fill with 20% open space, ~1% fine grained pyrite along rusty selvage of fracture fill.
EC16-35	15.5	15.6	QV	N			Yes	Broken contacts; two sub parallel quartz stringers up to 2 cm each cross cut bleached and altered biotite rich granitic unit; strong iron oxide; < 1% fine grained pyrite along selvages.
EC16-35	15.87	15.875	QV	N		59	Yes	0.5 cm wide fracture with 40% quartz infill (rest is open space), rusty + Mn, trace pyrite along selvage.
EC16-35	17.9	17.93	QV	N	20		?	3 cm discontinuous quartz lens in 4 cm gouge along a deformed fracture 20 - 25 degrees tca (Possible PEG? - 5% yellow felds in quartz). X - cut by < 1 mm brown carbonate, trace pyrite in selvage.
EC16-35	19.05	19.055	QV	N		80	Yes	0.5 cm wide quartz stringer cross cutting.
EC16-35	19.55	19.554	QV	N		77	Yes	4 mm thin x-cutting quartz stringer plus discontinuous quartz lenses < 5 mm wide.
EC16-35	19.7	20.5	QV	N		48	Yes	Milky white violet vein, fractured with 5% open space along network of rusty fractures within vein; pyrite rusty cubes (in crude stringers) up to 4 mm (,2%) across; Mn as pyrolusite on fractures, 1 spec of ?tetrahedrite? - grey sulfide mineral.
EC16-35	20.5	21.07	QV Zone	N		78	Yes	Milky white cross cutting quartz stringers and stock work zone up to 30% of interval clay / sericite altered wall rock; trace fine grained pyrite along quartz stringer selvages locally plus rotted pitted out cubic boxwork texture.
EC16-35	21.07	21.37	QV Zone	N		48	Yes	Zone of 7 sheeted quartz stringers up to 1 cm pitted and 20% open space; rusty with 4% pyrite as sulphide along quartz stringer selvages.
EC16-35	22	22.02	QV	N	30		No	Deformed quartz boudinaged ?sweat / PEG dyke along foliation, up to 1.5 cm wide.
EC16-35	28.8	28.82	QV	N			No	9 x 2 cm truncated wedge of quartz + feldspar ?PEG dyke.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-35	31.1	31.7	QV	N		42	No	Grey and white quartz with 40% pink coarse crystalline feldspar; highly fractured with 5% wall rock with sericite and trace cubic pyrite blebs along upper contact.
EC16-36	9.75	9.79	QV	N			?	Lens - clear grey 4 x 7 cm lens of discontinuous quartz feldspar (?PEG dyke ?); fractured with < 1% euhedral pyrite selvages.
EC16-36	13.5	15.1	QV Zone	N				13.50 - 14.0 m and 14.1 - 14.2 m, 14.5 - 15.1 m intersect slices of clear grey quartz lenses / veining; highly fractured quartz ?? older than violet vein system??; trace to < 1% fine grained pyrite along vein selvages.
EC16-36	15.1	16.35	QV	N			?	Clear and white quartz PEG with 2% wall rock in quartz / pink ffeldspar vein (local palest green axy hite soft mineral that is non fibrous, no reaction to acid, alteration of wall rock, altered wall rock @ 15.8 m); 2% fine grained pyrite at wall rock inclusion band and with quartz, fractured yet little open space cavities.
EC16-36	17.6	17.63	QV	N				3 cm stringer trace fine grained pyrite along selvage in MGRA.
EC16-36	18.08	18.13	QV	N				5 cm clear and grey QV; core is ground after vein.
EC16-36	19.25	19.28	QV	N				3 cm quartz stringer clear and white with white feldspars PEG?.
EC16-36	20.2	22.7	QV Zone	N			Yes	Broken contacts; Zone of sheeted QV up to 1 cm wide in MGRA, @ 21.1 m - 1 cm wide white QV with 2% rusty euhedral pyrite cubes in wall rock upper contact. @ 21.3 - 8 mm QV, 1% euhedral pyrite. @21.35 - 21.4 m - > 5, < 5 m QV (mostly sheets) stringers with < 1% euhedral pyrite selvages. @ 22.5 - 8 mm cross cutting white QV with < 1% euhedral pyrite on vein selvage. @ 22.53 - 22.70 m broken MGRA granitic intensely altered with sericite + 2 mm QV fragments.
EC16-36	22.7	23.08	QV	N			Yes	Violet vein - milky white vein with rusty fracture coatings and less than 3% zones of rusty pyrite cubes up to 5 mm grouped along. *VG as very fine spec on edge of euhedral pyrite in quartz vein rubble @ 23.50 m.
EC16-36	34.5	34.508	QV	N			Yes	Rubble - 8 mm white cross cutting QV in granitic rubble.
EC16-36	70.1	70.13	QV	N			Yes	Broken contacts; 3 cm2 fragment of white and grey quartz vein 6 mm wide in granitic faulty broken zone, trace fine grained pyrite on quartz vein selvage with granitic host.
EC16-37	2.13	2.16	QV	N			?	3 cm3 rounded QV milky white OVB? at top of hole, < 2% anhedral rusty pyrite blebs in granitic fragments at QV margins.
EC16-37	4.9		QV	N			?	40% PEG clear and white quartz with coarse pink feldspar, < 1% anhedral pyrite blebs near wall rock / quartz boundaries; clay after feldspar in granitic wall rock.
EC16-37	6.04	6.05	QV	N			Yes	Dark grey discontinuous quartz lens 5 cm x < 1 cm wide with rusty 30% open space cavities; 3% euhedral pyrite cubes in center of quartz lens.
EC16-37	6.4	6.49	QV	N			?	3 x 4 cm patch of clear quartz ?PEG fragment with < 1% euhedral pyrite cubes on margin.
EC16-37	6.75	7.25	QV Zone	N			Yes	Fractured zone with 50% PEG and x-cutting QV, milky white and grey quartz, fractured, 4%.
EC16-37	7.45	8.1	QV Zone	N			Yes	Broken zone with 60% PEG and white QV material grey and milky white quartz; 2% euhedral pyrite in quartz.
EC16-37	8.9	8.904	QV	N	47		Yes	4 mm QV milky with 1% euhedral pyrite and 5% open space.
EC16-37	9.05	9.051	QV	N	55		Yes	1 mm dry quartz less fracture with 2% rusty pyrite.
EC16-37	9.45	9.46	QV	N		60	Yes	Brittle offset of < 1 cm quartz stringer with epidote ad rusty pyrite pits x-cutting sericite altered granitic unit, 2% pyrite.
EC16-37	13.72	14.7	QV	N			?	Grey and milky white quartz with 3 x 4 cm pink coarse feldspar PEG dyke; 5% open space as rusty wall rock inclusions pitted out; < 1% anhedral rusty pyrite at WRI selvages.
EC16-37	18	18.01	QV	N	70		Yes	1 mm QV cross cutting thin with < 1% fine grained pyrite in quartz and 10% open space.
EC16-37	19.4	19.5	QV Zone	N	80	80	No	Set of 3 sub parallel, 1-4 mm wide QV's with green sericite envelopes, trace pyrite.
EC16-37	21.9	22.4	QV	N	3		Yes	2 mm grey quartz stringer sub parallel tca.
EC16-37	23.1	23.9	QV Zone	N	45		Yes	Grey / white quartz x-cutting QV up to 1 cm wide at least 9 QV's / dykes.
EC16-37	24.35	24.6	QV Zone	N			Yes	Non planar contacts; Zone of 2-5 mm QV "stockwork" with pinching and local boudinage quartz veining likely PEG dyking.
EC16-37	25.7	29	QV Zone	N		50	Yes	Dry (quartz lens) fractures x-cutting foliation with large open space cavities; > 12 / m; fine grained pyrite.
EC16-37	29	30	QV Zone	N	50	50	Yes	Zone of sheeted sub parallel 3mm --> 3 cm wide milky white quartz stringers in sericite granitic unit < 1% fine grained anhedral pyrite along selvages.
EC16-37	30.48	30.51	QV Zone	N			?	3 cm2 fault granitic fragment with 40% white quartz stringers.
EC16-37	32	32.08	QV Zone	N			?	8 cm broken section of white fractured QV material in clay rich faulted zone of very poor recovery.
EC16-37	39.1		QV Zone	N			?	Highly fractured and deformed clear and grey quartz lens @ 39.1 with associated FeOx rich faulted zone betweern 38.7 - 39.2 m, trace pyrite.
EC16-37	44.4	45.11	QV Zone	N			Yes	>12 4-6 mm wide milky white quartz stringers in a stock work pattern immediately HW to Violet vein, broken interval with 5 cm3 quartz vein fragment milky white @ 44.6 m, rusty boxwork and euhedral pyrite < 1% on quartz stringers.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-37	45.11	46	QV	N			Yes	Milky white massive QV violet vein common bright orange limonite coats fractures up to 2% rusty euhedral pyrite cubes often completely removed up to 7 mm wide giving box work texture 2nd generation fine grained metallic pyrite in rusty pyrite cubes; trace very fine grained chalcopyrite within fine grained pyrite mass.
EC16-38	11.15	12.35	QV Zone	N	75	75	Yes	Set of 1-2 mm grey massive quartz veinlets; 15 / m. Locally pitted and vuggy. Trace oxidized, anhedral pyrite and pyrolusite (brown, flecks).
EC16-38	15.52	15.525	QV	N	70	70	No	5 mm grey, massive blocky visable with sericitized halo 5 cm. Pyrolusite on later fractures. Lost core.
EC16-38	25.75	26.97	QV	N		60	Yes	Light grey and orange massive quartz vein, with apparent zoning; planar wispy WRI, massive with blocky WRI, then strongly fractured and pitted with galena and trace pyrite (up hole to down hole).
EC16-38	27.18		QV	N	55	70	Yes	Dark grey quartz veinlet, cut by limonite fractures sub parallel to veinlet, oxidized selvages with 2% cubic pyrite.
EC16-38	28.6		QV	N	12		?	Dark grey quartz veinlet, limonite fractures discontinuous and irregular in rubbly core.
EC16-38	54.95	54.97	QV	N				2 cm quartz veinlet, limonite stained with coarse grained biotite selvages, blocky coarse grained quartz.
EC16-39	7.22		QV	N	45	40	Yes	Grey coarse grained quartz veinlet with 30% pits with brown stain, coarse grained euhedral biotite 10%. Sericite halo.
EC16-39	8.34	8.91	QV	N	16	20	Yes	1- 2 cm grey (running down ca) blocky / coarse grained quartz > kspar pegmatite, folded (not full core thickness) crosscuts fabric of MGRA in center but parallel at margins.
EC16-39	9.11	9.43	QV	N	8	20	Yes	5 mm (running down CA) grey quartz veinlet, folded but x-cutting foliation in MGRA. Minor oxidized pyrite selvages and hematite.
EC16-39	12.53		QV	N	55		Yes	Grey quartz veinlet, lower half faulted, coarse grained quartz, pitted with 5 cm sericite halos.
EC16-39	13.75		QV	N	78	80	Yes	Grey quartz veinlet, 50% brown pits, faulted. Part of sericite altered interval.
EC16-39	14.2		QV	N	42	42	Yes	Blocky grey quartz vein; 1 cm, trace euhedral, fine grained pyrite in selvage. Part of bleached sericite altered interval.
EC16-39	14.61	14.8	QV	N	50	40	?	Grey and pink quartz - k feldspar coarse grained pegmatite, minor fine grained biotite, selvage fine grained silky sericite with 2% oxidized euhedral pyrite, fine grained. Related to kink in foliation, locally x-cutting.
EC16-39	15.6	16.25	QV Zone	N	70	75	Yes	Zone with ~ 11 fine quartz veinlets + dry limonitic fractures, trace hematite + pyrite, weak silicification. Veinlets quartz with pyrite? carbonate? pits.
EC16-39	16.76	17.07	QV Zone	N	50	70	Yes	5 / 30 cm quartz veinlets, ~ 50 - 70 degrees tca in rubbly interval, pyrite, euhedral, fine grained, oxidized in selvages, quartz with diffuse boundaries.
EC16-39	23	23.15	QV Zone	N	40	25	Yes	Discontinuous network of quartz veinlets, massive with pods of limonite (pyrite ? carbonate?) 20%, cut by swarm of limonite fracture fill. Anhedral oxidized pyrite in matrix 0.5%
EC16-39	28.15		QV	N	18	25	Yes	Pinch and swell / irregular quartz + Fe - carb? + limonite stringer in sericite altered interval.
EC16-39	29.75	29.94	QV	N	55	45	Yes	Massive mottled white and grey quartz vein cut bu bxing limonitic fracture fill with pyrolusite, pyrite fresh + oxidized 3 mm clots rare, trace chalcopyrite within oxidized clots, possibly fine grained galena along fractures.
EC16-39	29.94	30.4	QV Zone	N	60		Yes	15 veinlets in interval, grey quartz locally with diffuse boundaries, minor WRI and oxidized pyrite +/- galena (fine grained in oxidized masses 3 mm). Veinlets locally pitted with limonite + clay.
EC16-39	30.26	30.28	QV	N	70	65	Yes	2.5 cm quartz vein, sharp foot wall with diffuse hanging wall, trace pyrite and galena blebs with quartz, feldspar (WRI) trace.
EC16-39	30.9	32.34	QV	N	50	50	Yes	Quartz vein, white +orange, massive / blocky with WRI 3% altered MGRA and trace pyrite, galena, galena rimmed by pyrite. Lower contact faulted.
EC16-39	32.98	32.99	QV	N	80	90	Yes	1 cm quartz veinlet, grey + blocky with 0.5% oxidized pyrite, 3 mm angular blebs --> infilling?, carbonate + limonite fracture fill / selvages.
EC16-39	33.12	33.122	QV	N	50	50	Yes	2 mm quartz veinlet, wavy with diffuse boundaries, oxidized biotite in matrix + vein, possibly pegmatitic.
EC16-39	33.68		QV	N	70	70	Yes	Quartz - carbonate stringer with 1 cm sericite halo, wavy.
EC16-39	35.97	36.27	QV	N	15	20	?	Dart orangish - grey massive quartz vein parallel to foliation, 3 mm seritized dark green WR lens, 10 mm sericite halo, cut by translucent carboante + limonite fractures. Oxidized pyrite - 2%.
EC16-39	36.27	37.06	QV Zone	N	45	60	Yes	Series of quartz veinlets, contacts locally diffuse, pegmatitic (+ k feldspar), local limonite carbonate brecciating.
EC16-39	37.65	37.66	QV	N	50	50	Yes	Dark orangish grey block quartz vein 1.5 cm, 5 mm carbonate stringer selvage + limonite, / quartz - carbonate stringers (5 within 10 cm).
EC16-39	39.28	39.283	QV	N	45	50	Yes	3 mm dark grey and green quartz veinlet, dark green altered sulfide? 30% in interval with dark green stringers.
EC16-39	40.42	40.422	QV	N	42	42	Yes	2 mm wavy quartz - dark green brown earthy material (altered carbonate?) + pits veinlet.

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EC16-39	42.28		QV	N			?	Quartz vein fragment in rubble zone, discontinous grey block with sericite altered WR.
EC16-39	46.89	47	QV	N	40		Yes	Dark grey quartz + k feldspar pegmatie dyke, coarse grained biotite along fracutes / WR wisps? along contact with dark green sub unit.
EC16-39	47.2		QV	N			Yes	Dark grey quartz + k feldspar pegmatite fragment in rubble.
EC16-39	48.08	49.53	QV Zone	N	45		?	~ 5 / m diffuse quartz / k feldspar stringers + parallel dry fractures. Weak hematite selvages.
EC16-39	58.51	58.74	QV	N	20	20	Yes	Dark grey pegmatitic quartz + k feldspar vein, fine grained silky sericite in halo 5 mm. Trace hematitic + pyrite as oxidized, euhedral 1 mm.
EC16-39	59.1		QV	N			?	Non - planar dish shaped grey peg? quartz vein with altered MGRA inclusions (bleached + coarse grained biotite) + 3% epidote in halo. Appears boudinaged down hole.
EC16-39	59.35	59.6	QV	N	38	20	?	Irregular quartz + k feldspar pegmatite vein, non-planar, hematite and sericite selvages with coarse grained biotite in halo (also in interval). Appears folded or cuts core oblique + ?????. Fine carbonate fractures.
EC16-39	60.5		QV	N	15	16	?	Grey foliaform quartz + trace carbonate vein, boudinaged / pinch + swell fabric, weakly hematite selvages.
EC16-40	3.95	3.96	QV	N				4 mm x 15 mm lens of white quartz (waxy looking discontinuous PEG?).
EC16-40	5.5	5.8	QV Zone	N				Discontinuous clear and white quartz with salmon pink k feldspar PEG as lenses up to 1 cm wide with open space.
EC16-40	6.5	7.9	QV Zone	N			85 Yes	> 13 2 mm wide white quartz veinlets x-cutting orange granitic unit, discontinuous locally (? old thin PEG dykes?) obscured by surface oxidization.
EC16-40	16.6	16.8	QV	N	14		Yes	1 cm wide zone of 60% open space cavities along foliation with 2 mm clear quartz infill and rusty pyrite specs at selvage in magnetic granitic host.
EC16-40	27.4	29.3	QV Zone	N			80 Yes	Zone of common sub parallel white quartz and / or dry fractures with associated large Mn/ FeOx coated drusy open space cavities, trace pyrite.
EC16-40	29.3	30.48	QV Zone	N	65	65	Yes	QV stringer zone of > 16 milky white quartz stringers 7 mm to 2 cm wide; rare open space within stringer but cockade quartz infill QV at 30 m, pyrite as rusty blebs near QV margins < 1 mm across (mostly anhedral).
EC16-40	30.48	32.7	QV	N			75 Yes	QV - Violet vein; milky white quartz with bright orange limonite fractures, vein is generally massive with blebs of rusty pyrite and lesser metallic later anhedral pyrite < 1 m blebs (locally infilling rusty cubes). Pyrite cubes concentrated between 31.15 - 31.25 and 31.90- 32 m --> pyrite as irregular stylotic masses < 2 mm wide, local bx texture with pyrite and FeOx fracture fill.
EC16-40	32.7	36.6	QV Zone	N			75 Yes	Quartz vein stringer zone, FW to violet vein above; milky white sheeted vein set up to 20 / m gradually becoming less down hole. At 32.8 m 3 mm grey late quartz stringer, x-cuts white vein set 60 degrees tca.
EC16-40	34.6	34.64	QV	N			50 Yes	4 cm wide QV with ribbons of << 1 mm sericite granitic host.
EC16-40	36.5	36.55	QV	N	80		Yes	2 cm wide white x-cutting QV with 3 cm of sericitic host granite then a second 2 cm broken QV stringer, rusty trace pyrite on QV selvage.
EC16-40	40.2	40.6	QV Zone	N	70	70	Yes	5 sheeted 2 mm wide grey and clear quartz stringers that x-cut MGRA hostare truncated by 21 degree tca slip plane.
EC16-40	42.4	42.6	QV Zone	N			No	Deformed contacts. Up to 5 cm wide PEG clear quartz + large k feldspars crystas with trace euhedral pyrite along upper contact with wall rock.
EC16-40	43.2	43.7	QV Zone	N	25		No	1 cm white and clear quartz stringer en echelon stepped and offset parallel to foliation at 25 degrees tca plus 5 cm ide PEG with < 1% euhedral pyrite cubes in quartz near upper contact at 43.4 m.
EC16-40	45.1	45.9	QV	N	10		Yes	4 cm PEG dyke along slip plane with local bx and milling of MGRA host - very sericite rich, PEG is broken and limonitic stained.
EC16-40	47.65	47.653	QV	N	80		Yes	3 mm white quartz veinlet clearly x-cutting with minor carbonate selvages.
EC16-40	48.1	48.4	QV Zone	N	70	70	Yes	Set of 3 very thin 2 mm and << 1 mm sub parallel grey quartz << white carboante veinlets x-cutting.
EC16-40	49.4	49.405	QV	N		50		5 mm white quartz stringer x-cutting MGRA host; trace fine grained rusty pyrite selvages.
EC16-40	54.05	54.053	QV	N			Yes	Broken contacts; 3 mm white quartz veinlet x-cutting MGRA, trace euhedral pyrite cube.
EC16-40	54.75	54.79	QV	N			No	4 cm PEG dyke, 10% rusty open space cavities, trace rusty pyrite.
EC16-40	57.6	57.61	QV	N			?	1 cm2 lens of PEG dyke / quartz white with associated 10 x 4 mm open space cavities rusty.
EC16-40	57.7	58.4	QV Zone	N	80	80	Yes	Zone of silcified pinkish metagranite with four < 2 mm wide dark grey to white quartz veinlets with grey metallic very fine grained sulphide, arsenopyrite? sulphosalt? in quartz.
EC16-40	60.3		QV	N			?	PEG pink / white quartz, < 3 cm wide. Broken contacts.

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EC16-40	60.4		QV	N			?	5 cm wide PEG, pink feldspars/ white quartz.
EC16-40	60.5		QV	N	80	80	Yes	6 cm PEG dyke with 40% salmon pink coarse k feldspar ad white / grey quartz cut by late 5 < 3 mm wide white quartz + grey sulphides and 10% open space, *clearly x-cutting PEG dyke.
EC16-40	60.9	61.2	QV	N	20		No	Quartz open space "Stringer" along foliation, abundant sericite margins, trace fine grained pyrite.
EC16-41	1.22	1.52	QV Zone	N				Quartz vein rubble up to 50% of interval.
EC16-41	3	3.25	QV Zone	N	55	55	Yes	Zone of 4 sub parallel sheeted thin < 4 mm quartz stringers clear quartz with 10% pale yellow feldspar in quartz (?PEG dykes??) trace fine grained pyrite.
EC16-41	5.4	5.403	QV	N		43	No	3 mm fractured clear quartz stringer along foliation, green sericite on selvages of quartz.
EC16-41	13.3	14.2	QV Zone	N	60	60	Yes	Thin < 5 mm white quartz stringers / PEG dykes (> 11) locally discontinuous yet sub parallel set 60 degrees to ca. x-cutting foliated silicifed MGRA, trace fine grained pyrite selvage.
EC16-41	15.3	16	QV Zone	N		2	Yes	up to 5 cm wide fractured clear and white quartz stringer along contact at low angle to ca, broken; 10% salmon pink feldspar in quartz PEG; < 1% fine grained pyrite blebs in host near quartz selvages.
EC16-41	21.9	22	QV Zone	N	40	40	No	PEG 3 < 2 cm wide wub parallel PEG Dykes along foliation.
EC16-41	23.65	23.9	QV Zone	N	40		No	2-8 mm quartz PEG dykes along foliation with sericite selvages.
EC16-41	26.1	26.104	QV	N		40	No	4 mm PEG dyke along foliation.
EC16-41	27.3	27.33	QV	N	38		No	3 cm wide fractured clear and white quartz with pink feldspar PEG dyke; << 1% euhedral rusty pyrite bleb in quartz.
EC16-41	30.2	30.5	QV Zone	N			Yes	Zone of quartz stock work stringers, locally discontinuous and truncated up to 1 cm wide at various angles tca in deformed sericite rich MGRA; silvery grey very fine grained sulphide in quartz? arsenopyrite?; trace rusty fine grained pyrite.
EC16-41	31.05	31.053	QV	N			Yes	Non planar contacts; 3 mm quartz stringer, x-cuts foliation with 3 mm rusty pits along selvage.
EC16-41	33.65	33.7	QV	N			?	2 x 5 cm clear quartz lens (probable PEG) with rusty pits.
EC16-41	36.85	36.87	QV Zone	N	42	42	Yes	2 sub parallel < 2 cm PEG dykes + open space rusty cavities.
EC16-41	37.7	37.706	QV	N			Yes	Discontinuous; 6 mm wide lens of PEG x-cutting hematitized MGRA.
EC16-41	38.2	38.9	QV Zone	N			Yes	Zone of broken hematitic MGRA with PEG dykes up to 2 cm and sheeted 2 mm white quartz stringers (7 / m).
EC16-41	39.7	43.5	QV Zone	N				Hanging wall to violet vein; Zone of stock work sheeted < 2 cm white quartz veins, often truncated and displaced, < 1% rusty pyrite along selvage; trace euhedral cubes in host.
EC16-41	43.5	46.2	QV	N	50		Yes	Violet vein; milky white QV with very rare open space; rusty limonite fractures rare but visible 3 mm pyrite cubes completely oxidized in quartz vein center and < 1% pyrite at vein margins.
EC16-41	46.2	47.1	QV Zone	N			Yes	Foot wall zone to Violet vein intersection with 20% milky white stwk veining at various angles x-cutting foliation in host MGRA to 47.1 m then decreasing quartz veining away from violet vein gradually.
EC16-41	47.5	47.53	QV Zone	N		60	Yes	QV's < 3 cm cm widediscontinuous; 2 mm rusty pyrite cubes in host near QV selvages locally.
EC16-41	49.4	49.47	QV	N			Yes	PEG dyke 7 cm wide x-cuts foliation in hematite granitic unit; multi injection clear quartz x-cuts white quartz PEG, trace fine grained pyrite along selvage.
EC16-41	51.25	51.26	QV	N			?	< 1 cm PEG fragments in broken hematized MGRA.
EC16-41	52.1	52.11	QV	N			Yes	1 cm orange feldspar rich PEG x-cut foliation.
EC16-41	53.5	53.507	QV	N			No	7 mm quartz / feldspar PEG along foliation.
EC16-41	54.8	54.81	QV	N			No	1 cm PEG lens.
EC16-41	55.1	55.107	QV	N		38	No	7 mm PEG along foliation.
EC16-41	55.77	55.83	QV	N		39	No	6 cm PEG along foliation.
EC16-41	56.53	56.55	QV	N	40		No	2 cm PEG along foliation.
EC16-41	56.9	56.93	QV	N			No	3 cm PEG roughly along foliation.
EC16-41	57.5	57.52	QV	N		39	No	2 cm PEG along foliation.
EC16-41	59.85	60	QV Zone	N			Yes	3 cm PEG dyke x-cutting carbonate altered MGRA + ankerite fracture fill.
EC16-42	3.05	4.57	QV Zone	N			?	Rubbled contacts; White quartz with salmon pink k-feldspar (PEG) rounded rubble, OVB.
EC16-42	23	23.1	QV	N			Yes	3 cm2 rubble of white quartz plus milky white calcite in schist unit, no sulphide.
EC16-42	33.45		QV	N				Fault breccia with calcite with 3 x 2 cm quartz fragment.
EC16-42	33.5	52.55	QV Zone	N				Zone of fault breccia with < 10% white quartz fragments often broken and pulled apart with gouge in between quartz; majority have associated white carbonate coating hair width cracks in the quartz.

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EC16-42	33.95		QV	N				Fault breccia with 5 x 4 cm x 2 cm thick QV fragment in clay gouge, rusty fractured with calcite along fine fractures.
EC16-42	43.75	43.85	QV	N				10 cm fractured QV with high concentration of white carbonate with green chlorite schistose wall rock set in orange gouge with 3 cm2 quartz in chlorite schist tightly folded fragment in gouge.
EC16-42	53	53.34	QV Zone	N			?	non planar contacts; Zone of 90% white quartz in chlorite schist with significant carbonate in QV and SCHIST host, trace fine grained pyrite at selvage.
EC16-42	57.4	57.44	QV	N				4 x 5 cm irregular lens of quartz vein ?sweat + carbonate in green chlorite fault gouge.
EC16-42	57.7	57.75	QV	N	50		?	5 cm wide QV with carbonate in SCH, very little open space cavities.
EC16-42	58.75	58.77	QV	N				2 cm wide discontinuous quartz slice sub parallel to core axis in green gouge + chlorite.
EC16-42	61.75	61.9	QV	N	55	35		?Target Violet Vein in fault? clear quartz vein with carbonate patches in quartz; thin < 1 mm x 3 cm fine grained pyrite in stringers in quartz + 2 blebs of galena.
EC16-43	8.17	8.4	QV Zone	N	65	65	Yes	Set of 5 Fe - carbonate veinlets, bxing quartz veinlets, trace pyrite, fine grained in alteration halo.
EC16-43	9.5	9.75	QV Zone	N	60	70	Yes	Quartz flooded interval, possibly with relict quartz stringers brecciated by network of Fe carbonate stringers. 1% pyrite fine grained halo.
EC16-43	10.8	11	QV	N	30	65	Yes	White grey quartz vein, part of network of quartz veinlets, cut by Fe - carbonate stringers, 0.5% fine grained galena in quartz, trace pyrite, pyrolustite along selvages. Halo strongly sericite and silica altered.
EC16-43	11.97	12.07	QV	N	65	70	Yes	Grey quartz vein, breccia textured WR contacts, but by limonite + pyrolusite fractures parallel to vein. Wall rock strongly altered (bleached feldspar, scratchable but not clay soft, no reaction to HCL). Trace pyrite.
EC16-43	12.06	12.19	QV	N	70	70	Yes	Grey quartz vein, massive crackled with limonite and pyrolusite + pyrite +/- galena fractures. WRI 5-10% 5 cm long, strongly sericite + white alteration as above. Fine grained dark galena within quartz, 0.5% - trace.
EC16-43	12.6		QV	N	55	65	Yes	Grey fractured irregular quartz veinlet, strongly oxidized and limonite / clay gouge DH, pyrolusite + pyrite selvages.
EC16-43	14.5		QV	N	45	30	Yes	Grey orange set of fine quartz + FeOx fractures cutting strongly altered wall rock.
EC16-43	14.75		QV	N	85	85	Yes	Grey + orange quartz vein, with 30% Fe carbonate + dark yellow brittle non reacting fragments.
EC16-43	15.95	18.3	QV Zone	N	85	60	Yes	Set of grey quartz veinlets, discontinuous with diffuse boundaries in silica flooded WR, trace pyrite in WR, 1% Fe carbonate discontinuous clasts + stringers. Fien dark grey sulfide? stringers (sub metallic, dark, poor crystal form).
EC16-43	16.8	17.33	QV Zone	N	70	65	Yes	Set of dark grey quartz + Fe Carbonate veinlets 8/ m + stringers, discrete blocks of Fe carbonate appear fractured by coarse grained extensional ? quartz.
EC16-43	19	20.5	QV Zone	N	60	40	Yes	Set of grey quartz stringer, 3 / m, quartz bx'd and fragmental within Fe carbonate, irregular / stwk shapes, minor dark grey sulfide along selvages. Within crenulated / deformed zone.
EC16-43	21.55	22.15	QV Zone	N	50		Yes	Set of grey quartz stringers + veinlets, ~ 15 / m cutting heavily silicified + patchily bleached MGRA. Network cut by carbonate stringers with pyrolusite and trace pyrite.
EC16-43	23.03		QV	N	85		Yes	Dark grey quartz veinlets, discontinuous and appear folded and cut by fractures, quartz + Fe carbonate, network / irregular.
EC16-43	23.26		QV	N	80		Yes	Dark grey quartz veinlets, discontinuous and appear folded and cut by fractures, quartz + Fe carbonate, network / irregular.
EC16-43	24.6	25.71	QV Zone	N	60	80	Yes	Set of 12 grey quartz stringers + veinlets; locally irregular / bxing, grey quartz with orange Fe - carbonate, discontinuous minor pyrite, pyrolusite.
EC16-43	29.35	29.55	QV	N	75		Yes	Light grey block quartz vein, ~ 30% pit with pyrolusite filling / coating, 0.5% fine grained galena + ??? pyrite in selvages.
EC16-43	30.95	31.37	QV	N	15	15	Yes	Grey with white patches, massive blebby quartz vein, whiter / tan crystal with parallel FeOx fractures --> altered feldspar? possibly pegmatite. 0.5% dark grey fine grained sulphide, not galena. Minor / trace galena within limonite fractures.
EC16-43	31.37	34.6	QV	N	80	60	Yes	Sheet quartz + calcite veinlets, locally stwk.
EC16-43	32.62	32.7	QV	N	85	65	Yes	Grey quartz vein massive with crackle texture, bx'd by orange Fe carbonate, quartz clearly predates. Minor pyrolusite associated with Fe carbonate.
EC16-43	33.25	33.5	QV	N			Yes	Irregular / discontinuous quartz veinlets bxing well layered quartz eye gneiss. Minor pyrite (lim). Bx'd by Fe carbonate.
EC16-43	34	34.35	QV	N	60	60	Yes	Discontinous network of quartz veinlets bx as in 33.25 - 33.50 m. 2% white / cream soft massive mineral similar habit to calcite ????? in interval.
EC16-43	37.25	38.1	QV Zone	N	68	52	Yes	Fine quartz - feldspar (? white heard, no reaction) - carbonate stringers. Halos clean, locally carbonate pitted and oxidized.
EC16-43	39.98		QV	N	68	70	Yes	Grey and white quartz - carbonate veinlet cut by second fine quartz stringer. With 10 cm halo of biotite dis????? (?), silicification. Pyrite fresh in selvages within sericite bands.

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EC16-43	41.6	46.08	QV Zone	N	68	80	Yes	Cream and grey calcite - quartz veinlets and stringers, 11 / m, calcite infilling coarse grained, euhedral quartz crystals (where coarse grained), halos weak bleaching.
EC16-43	43.25		QV	N	80	75	Yes	Grey and cream quartz - carbonate vein, part of set in interval, 1 cm wide coarse grained quartz with calcite infill, minor dark grey sulphide (possibly galena but no good crystals).
EC16-43	43.93	43.94	QV	N	65	60	Yes	Grey quartz - carbonate vein 1-2 cm, irregular, with limonite gouge cutting, pyrite in selvages ~ background for interval, WR clasts --> silicified and sericite.
EC16-43	46.7	47.7	QV Zone	N	40	40	Yes	Wavy quartz - carbonate stringer as 40 - 46m. ~ 7 / m, fresh selvages.
EC16-43	46.9	47.15	QV Zone	N		?		Set of grey blocky massive quartz veins, dish shaped/ non planar, pegmatitic with 5% altered pale feldspar. Cut by veinlets as 46.7 - 47.7 m.
EC16-43	48.15	48.5	QV	N	5	5	Yes	QV 1-2 cm running down CA. Clot of subhedral pyrite 3 x 1 mm otherwise trace. Cut by carbonate veinlets weak dark cryst sericite? selvages, minor fine grained dark pyrolusite.
EC16-43	48.6	53.75	QV Zone	N	70	80	Yes	White - grey quartz - carbonate veinlets and stringers, 70 - 80 degrees tca, light altered in halos, weakly increase siliceous halos.
EC16-43	49.92		QV	N	70	60	Yes	Pale cream quartz - carbonate ? breccia textured veinlet, part of sheeted veins in interval, with light grey green soft waxy infill. Minor pyrolusite.
EC16-43	53.04	53.05	QV	N	52	52	Yes	1 cm grey massive quartz veinlet, sharp contacts, minor white weakly reactive to HCL, dolomite? Blocky crystals.
EC16-43	55.6		QV	N	65	65	Yes	Dark grey massive quartz vein with 10% carbonate + white clay blocks, bx texture with WRI as fragments. Cuts foliation parallel quartz rich segs in MGRA.
EC16-43	57	59.1	QV Zone	N	65	70	Yes	20 / m massive white and grey dolomite + quartz veinlets + stringers, cutting wider quartz veins where present.
EC16-43	57.7	59.1	QV Zone	N	60	75	Yes	Grey quartz veinlets, associated with pyrite and trace galena, cut by quartz - carbonate stringers 6/ m.
EC16-43	57.84		QV	N	55	75	Yes	Grey massive quartz vein, irregular non planar stwk, WR clasts --> sericite + carbonate, pyrite fresh bleb in quarts with fine grained galena / ?core. Cut and offset by veinlets in interval (above).
EC16-43	58.42		QV	N	70	75	Yes	Grey + cream quartz - feldspar (?) vein, minor fresh fine grained pyrite in selvages.
EC16-43	59.6		QV	N	30	30	Yes	Massive grey quartz vein, wavy contacts, with 1% pyrite subhedral, fine grained.
EC16-43	60.65		QV	N	45	45	Yes	Thin (2mm) quartz stringer, faulted dh contact, bleaching, FeOx in WR, stringers branching off. Minor pyrite selvage and halo.
EC16-43	62.46	62.71	QV Zone	N	65	65	Yes	10 + stringers (~ 40 / m), white quartz - dolomite, stwk at foot wall of silicified zone above.
EC16-43	64.8	66.8	QV Zone	N	80	80		5 / m grey quartz veinlets, x-cutting quartz - carbonate stringers. Minor pyrite halo.
EC16-43	64.8	67.33	QV Zone	N	50	70	Yes	20 / m quartz dolomite - Fe carbonate stringers, WRI where wider, halos weak increase in sil + pyrite 1%.
EC16-43	65.07		QV	N	60	70	Yes	Grey block quartz vein, 5% carbonate with dark green brittle earth min.
EC16-43	66.18		QV	N	78	75	Yes	Quartz vein with 50% Fe carbonate infill, 2 cm bleached selvages with 1% pyrite, trace galena.
EC16-43	66.72		QV	N	85	50	Yes	Grey quartz vein, breccia textured with angular WR clasts, locally --> Fe carbonate + minor pyrolusite ? + soft brittle dark green earthy / matte mineral. With 3 cm variably pyritic bleached halo.
EC16-43	66.8	71.2	QV Zone	N	55	60	Yes	8 - 10 / m thin white quartz carbonate stringers, locally with stair stepping shape.
EC16-43	70.66		QV	N	40	70	Yes	1-4 cm quartz vein with WRI ---> carbonate + sericite, carbonate infill. Trace galena, 1% pyrite in vein < selvages.
EC16-43	71.05	71.87	QV Zone	N	75	80	Yes	set of 9 quartz veins, 1 cm grey massive quartz - Fe carbonate; local WR fragments? --> carbonate + massive matte sericite? Minor pyrolusite in selvages.
EC16-43	73.86	74.07	QV Zone	N	35	50	Yes	Stwk of quartz +/- Fe carbonte veins, oxidized halos, fine grained disseminated pyrite in selvages + halos, 1%, WR brecciated.
EC16-43	78.1	79.87	QV Zone	N			Yes	35 - 75 degree contacts; 7 / m fine dark grey quartz stringers +/- carbonate + sericite. 1 cm dark pyrolusite? halos where less oxidized.
EC16-43	79.55		QV	N	70	48	Yes	Grey quartz - carbonate vein, split around WR fragment, fracute with limonite and carbonate, selvages at by brown sericite veinlets. Pyrite fresh with oxidized rim, trace.
EC16-43	79.8	80.02	QV	N	50	50	Yes	Grey quartz breccia vein with 50% altered WR clasts (dark pyrolusite?, Fe carbonate, sericite + bleaching). Pyrite - 0.5%.
EC16-43	80.29	80.43	QV	N	60	50	Yes	Orange grey quartz breccia vein, heavily pitted (clay after feldspar?), bx'd by stwk of dull brown orange no reaction mineral. Dark patches in quartz fine sulphides?

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-43	80.85	84.15	QV Zone	N			Yes	50 to 70 degree contacts; 3/ m grey massive pitted quartz veins, 1-2 cm wide. Trace pyrite fine grained in halo. Locally with brecciated WR side band of quartz (two phases). Minor isolated galena.
EC16-43	84.3	84.4	QV	N		15	Yes	White clay gouge with quartz vein rubble.
EC16-43	84.9	86.8	QV Zone	N	70	80	Yes	3 / m grey massive quartz veinlets and stringers with minor feldspar --> clay. Halos patchily oxidized.
EC16-43	88.25	88.45	QV	N	35	45	Yes	Silicified jig saw breccia with quartz vein matrix, angular WR fragments bleached + silicified. Strongly oxidized no pyrite.
EC16-43	89.27	90	QV Zone	N	75	80	Yes	Sheeted quartz Fe carbonate veinlets (~15 / m) 0.5% fresh bright pyrite in halos. Pitted with matte dark green massive mineral locally.
EC16-43	92.05	92.5	QV Zone	N			Yes	Strongly bleached + silicified breccia, netwrk of quartz veinlets, 1% pyrite coarse clots of sub hedral crystals , oxidized. Uper 10 cm gougy; crumbly - argillic?
EC16-43	93.95	94.8	QV Zone	N			Yes	25 - 40 degrees - contacts; 3 grey quartz veinlets sub parallel to banding, pegmatitic? minor feldspar.
EC16-43	96.25	100.25	QV Zone	N			Yes	30 - 65 degrees contacts; Set of irregular quartz carbonate - clay veinlets, locally bx'd by white clay fractures.
EC16-44	12.83	13.14	QV	N	40	40	Yes	Off white to mottled beige and greyish areas. Crackle - fracture rehealed vein with 25% diffuse WRI. 90% quartz with interstitial calcite - limonite - pyrite pyrolusite fillings in fractures and vugs (10%). Pyrite often rimmed with limonite.
EC16-44	24.85	24.87	QV	N	60	60	Yes	Mottled white - grey, 2.5 cm wide quartz veinlet; In annealed shear. Rare trace pyrite - anhedral. Dark annealed shear lines on HW and FW margins of vein.
EC16-44	30.34	30.44	QV	N	55	55	Yes	Mottled off white - white light grey. 90% quartz + 10% coarse grained x/n calcite; fracture fill contain pyrolusite. Trace - 1% fine grained disseminated pyrite in 15 cm of HW associated with quartz stringers sub parallel to vein. Vein is 10 cm wide.
EC16-44	33.04	33.65	QV	N	60	45	Yes	Areas of milky white, tan - beige deep rust brown --> 20 - 30% WRI avg (3 x4 cm) of tan - beige Fe - carbonate altered wal rock associated with 5-7% disseminated and spotty pyrolusite and very fine grained disseminated euhedral - anhedral pyrite; this also includes a silica flooded non - calcareous WRI - similar color; 7% deep rust brown ankerite - siderite carbonate with 3% disseminated pyrolustite + disseminated fine grained euhedral - anhedral pyrite. Within 10 cm of FW contact is deep black irregular patchy 1 x 0.5 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.
EC16-44	33.65	35.86	QV Zone	N	80	80	Yes	Stringer and veinlet zone; one 1-5 mm wide silica stringer + fine pale selvage or envelope +/- pyrite. Two 1-5 mm wide limonite + carbonate - very rusty. 1 definintely cross cuts 2.
EC16-44	35.09	35.66	QV	N				One 3 cm wide milky white quartz veinlet. Trace disseminated pyrite, euhedral noted along veinlet margin.
EC16-44	35.86	36.09	QV	N		90	Yes	Milky white, weakly crackled with one patch of kaolin (1.5 x 0.5 cm) and one patchy of deep rusty limonite - carbonate (1.5 x 0.5 cm) filling an open fracture.
EC16-44	37.16	37.37	QV	N		50	Yes	Sinusoidal, tension gash Quartz - feldspar - limonite - carbonate stringers. Locally rusty (old stringers). Euhedral pyrite noted locally along margins but not in stringers.
EC16-44	41.44	43.74	QV Zone	N			Yes	Contacts 60 - 80 degrees tca; Fine dark rust, typicaly 1 mm wide Fe - carbonate and limonite tension gash fillings and fine stringers. 2 off white wider (1-20 mm) quartz stringer / veinlets with cleaner calcite selvages +/- patchy ankerite in core of stringer / veinlet (rare). Pyrite (euhedral) - fine grained, disseminated "trains" local to selvage and envelope of #2 set.
EC16-44	44.47	45.16	QV Zone	N			Yes	1 coarse quartz - ankerite + limonite / jarosite (infill) veinlets. 2 same as 1 but very fine (limonite) stringers in fine grained equigranular band. 1-3% disseminated fine grained pyrite (anhedral).
EC16-44	45.16	47.55	QV Zone	N	60	60	Yes	6 stringers; off white with ankerite (yellowish) bloches within - 10% of stringer. Fine calcite selvage. No significant alteration halos.
EC16-44	47.55	48.62	QV Zone	N			Yes	Contacts 45 - 90 degrees tca; Off white with light selvages. Patchy Fe - carbonate +/- limonite often central to veinlets / stringers. (5-10%) Minor increase pyrite along envelope.
EC16-44	51.39	52.3	QV Zone	N	80	80	Yes	Contacts 80-90 degrees tca. There are 2 veinlets; the rest are stringers - generally the same mineralogy. Some off set slightly due to crackle - shear. Off white quartz with 5 - 15% ankerite or Fe - carbonate + limonite and pyrolusite. Occasional anhedral to euhedral pyrite grained at selvage or in envelope.
EC16-44	55.71	58.1	QV Zone	N	70	70	Yes	Contacts range from 70 - 90 degrees tca; 29 stringers + veinlets and 27 stringers, all cross cutting foliation and predominantly comprise of grey quartz (+/- altered fel). Local intense limonite along fractures also noted.
EC16-44	58.1	59.8	QV Zone	N				Set of stringer - veinlets noted: 1 - larger milky - grey quartz +/- fel (?) +/- minor dolomite +/- minor accessory blue-green fluorite (medium grained). Dark pyrolusite fracture fill - local. 2 - smaller (older?) cream - white fracture fill and tension gash strong - predominantly quartz - fel.

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EC16-44	65.87	66.91	QV Zone	N			Yes	Stringer are fine 1-2 mm wide with oxide envelopes ad halos - contain quartz + ankerite or Fe carbonate with occasional euhedral pyrite near stringer.
EC16-44	67	67.03	QV	N	90	90	Yes	3 cm wide dolomite - quartz stringer.
EC16-44	67.17	68.28	QV Zone	N			Yes	Contacts are 65-90 degrees tca; 2 sets: 1) Steeper (90 degrees tca) quartz stringer set - thicker (5 mm). 2) shallow (50 degrees tca) dolomite - quartz or ankerite - quartz thin (1 mm) stringer, #1 are minor.
EC16-44	68.28	68.57	QV Zone	N	90	90	Yes	Grey crackled grey quartz stringers - 4 parallel to earch other. No pyrite.
EC16-44	68.57	69.93	QV Zone	N	40	40	Yes	Stringers are pale rusty cream, < 1 mm wide and are deformed --> tension gash style. Quartz - ankerite composition.
EC16-44	69.95	70.47	QV Zone	N	40	40	Yes	contacts are 40 - 65 degrees tca; Grey quartz stringers, 2 cm wide at FW ad 2 mm dolomite - quartz stringers halfway thru interval.
EC16-44	70.47	71.91	QV Zone	N	70	70	Yes	1 Predominantly rust colored fracture fill of ankerite - quartz; very fine(< 1 mm). 2 Grey quartz 2-4 mm wide are less abundant.
EC16-44	75.72	78.33	QV Zone	N	40	40	Yes	Contacts are 40 - 50 degrees tca; 12 quartz veinlets in this interval. Highlights: 77.13 - 1 cm wide @ 40 degrees tca; grey - white milky quartz + pale brown coarse grained x/n dolomite on HW side; pale silica flooded envelope. 1-2 cm on HW side. 77.37 - 3.5 cm wide @ 40 degrees tca; 60% grey - off white crackle quartz + 40% off white calcite and rust - brown Fe carbonate. 78.15 - 1.5 cm wide at 45 degrees tca; off white - milky quartz + 1 vug with limonite stain; intensely bleached and silica flooded HW envelope 1-20 mm.
EC16-44	78.33	81.05	QV Zone	N				36 stringer, veinlets and QV in interval. Highlights: 78.44 m one stringer from a family in upper part of interval 1 mm wide with minor ankerite at 60 degrees tca and bleached cream colored halo. 79.57m - 1 cm wide at 70 degrees tca of 85% off white quartz + 15% pale yellow - brown dolomite - no pyrite. 5.5 cm wide quartz veinlet at 65 degrees tca; milky white crackle with limonite fracture stain; 5-10% vugs on upper and lower contacts. 1 large calcite crystal in center of veinlet. No pyrite.
EC16-44	80.84	81	QV	N	70	70	Yes	15 cm wide QV; milky white + 10% bleached wall rock inclusions; weak ribbon texture. Weak rust on local fractures. Rare pyrite specs.
EC16-44	81.05	82.23	QV Zone	N	60	60	Yes	Quartz - calcite stringer set; average 3 mm.
EC16-44	82.23	82.3	QV	N	90	90	Yes	6.5 cm wide milky white - grey quartz veinlet with a spec of sti (?).
EC16-44	87.31	89.46	QV Zone	N	45	45	Yes	Contacts are 45 - 65 degree tca; 16 quartz stringers one of which is a 4 cm wide quartz - dolomite veinlet, very trace pyrite at best.
EC16-44	92.23	93.81	QV Zone	N	65	65	Yes	Contacts are 65 - 80 degrees tca. 12 stringers average 1 mm in width primarily of quartz composition; they are sheeted.
EC16-44	93.81	94.73	QV Zone	N	10	10	Yes	Contacts are 10 - 90 degrees tca; 26 stringers and veinlets; 2 sets include; 1 irregular grey crackle quartz - no halo. 2 ankerite - quartz associated with intermediate bleached / silica flooded envelope + local disseminated and blotchy pyrite + black alteration mineral or ss?? # 1 set appears older - not certain.
EC16-44	94.73	98.16	QV Zone	N	60	60	Yes	Contacts are 60- 90 degrees tca; 29 stringers/ veinlets includes 2 veinlets; they are sheeted are are fine quartz; the veinlets are quartz + Fe carbonate or minor ankerite.
EC16-44	98.16	98.22	QV	N	85	85	Yes	Milky white quartz; weakly fractured with minor ankerite (5-10%) - very patchy; very irregular margins; severely bleached and silica flooded. 3-10 cm HW and FW envelopes. 2% fine grained - medium grained disseminated, euhedral pyrite associated with wall rock alteration.
EC16-44	98.22	100.58	QV Zone	N	70	70	Yes	22 very fine 1 mm or less, quartz - ankerite - carbonate stringers; 90% of them are in the bottom third of interval - bleached sub-interval up to 5% disseminated, euhedral pyrite locally.
EC16-51	18.6	18.9	QV	N	40	60	?	Grey blocky massive quartz vein with 2% wall rock inclusion, minor pyrite, trace chalcopyrite.
EC16-51	20	20.12	QV	N			?	Rubbly quartz vein/ fragments. Oxidized on fractures, white - grey, MgO on fractures. Possibly cave but not re-drilled.
EC16-51	24.3	24.31	QV	N			?	Minor white blocky with oxidized fractures. Quartz rubble.
EC16-51	29.1	29.2	QV	N	45	80	?	Dark grey quartz vein, brown vugs 3%, 4% dark grey brown tinge to quartz - MgO?
EC16-51	35.7	35.71	QV	N	55		No	Grey blocky quartz, irregular sweat with upper contact deformed foliation. 3% MgO + soft clay vugs.
EC16-51	37	37.01	QV	N	30	40	?	Blocky fractured grey quartz vein / sweat, irregular contacts possibly foliaform, MgO vugs.
EC16-51	42.5	42.51	QV	N	80	65	Yes	Limonitic white blocky quartz vein, rubbly cutting foliaform sweat. Weakly oxidized selvages.
EC16-51	45.6	46.2	QV	N	10	35	?	Massive light grey quartz vein cut by fine ankerite - limonite stringers + MgO. Margins oxidized without euhedral pyrite. Wall rock wisps --> carbonate + FeOx.

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EC16-51	46.8	46.81	QV	N	65	80	Yes	Rough finely vuggy)with earthy brown oxidization fill) grey quartz vein, cut by ankerite + MgO stringers.
EC16-51	47	47.01	QV	N	45	60	?	1.5 cm light grey quartz vein, appears al little folded, cut by limonite fractures and carbonate.
EC16-52	20.65	20.66	QV	N	40	45	No	Bluish grey foliform quartz vein, MgO + FeOx on fractures + MgO? within quartz.
EC16-52	22.4	22.5	QV	N			?	Light grey quartz vein, massive with FeOx + MgO fractures, minor euhedral pyrite.
EC16-52	50.3	50.6	QV	N			?	White quartz vein, fractured and rubbly, 1% oxidized euhedral to subhedral pyrite after WRI (5%). Vugs weathered altered WR?
EC16-52	59.1	59.11	QV	N	70	70	Yes	Light grey, blocky quartz vein cutting folded foliform veinlets. Vugs with euhedral quartz crystals. Minor pyrite oxidized in wall rock inclusions.
EC16-52	59.3	59.31	QV	N	75	55	Yes	Blocky light grey quartz veinlet with ~ 1% euhdral oxidized pyrite, part of network including stringers in foot wall.
EC16-52	62	62.01	QV	N	64	55	Yes	6 mm quartz veinlet, grey cutting foliform quartz - carbonate vein, cut by dark yellow carbonate + ? stringers.
EC16-52	63.3	63.6	QV	N	36	54	Yes	Light grey - white massive quartz vein, 1% wall rock inclusions wispy, pyrite oxidized, euhedral, trace within the wall rock inclusions.
EC16-52	66.05	67.06	QV Zone	N			Yes	Network of massive white quartz veins with minor oxidized pyrite.
EC16-52	69.5	69.75	QV	N	78	60	Yes	Irregular quartz vein cutting foliform quartz - carbonate veinlets. Minor oxidized subhedral pyrite.
EC16-53	3.2	3.21	QV	N			?	In rubble after casing. Light grey quartz massive with minor oxidized pyrite. Re-drilled could be caving.
EC16-53	5.1	5.55	QV	N	40	75	Yes	Light grey quartz vein cut by orange carbonate veinlets / stkwk. Fresh pyrite clots 1% within carbonate.
EC16-53	8.7	8.71	QV	N	50	50	?	Light grey crackled. Irregular quartz veins with wall rock fragments. Possibly fold nose with ankerite blebs + stringers.
EC16-53	13	13.01	QV	N	80		?	Dark grey carbonate vein? lens? with 2% coarse grained, subhedral, fresh pyrite + dark selvages.
EC16-53	19	19.15	QV	N			Yes	X-cuts foliation at high angle. Dark grey with vugs (weathered carbonate?) + gouge slips in hanging wall and foot wall. Fine MgO brown wisps within quartz.
EC16-53	34.8	35	QV	N	58	60	Yes	Light grey mottled quartz vein, fine vugs, MgO and FeOx along fractures. Selvages weakly pyritic.
EC16-53	49	49.01	QV	N	60	60	?	Massive light grey crackled quartz vein, possible fold nose. Fractured by pale tan and brown clay / oxide.
EC16-54	21	21.7	QV	N	5	15	Yes	Tan - grey mottled carbonate - quartz vein running down CA, wall rock frags angular 5%.
EC16-54	30.1	30.2	QV	N	55	70	Yes	Light grey massive quartz vein, trace MgO within quartz. Tight.
EC16-54	30.6	31	QV	N	56	20	Yes	Light grey massive coarse grained quartz vein network cutting schist + foliform quartz. Dark grey euhedral coarse grained quartz with light grey infill massive. Oxidized pyrite 3% in selvages, MgO within vugs.
EC16-54	31	31.4	QV	N	10		Yes	Dark grey coarse grained quartz vuggy with dark brown carthy coating infilled locally by fine grained massive light grey quartz. 3% pyrite in selvages, oxidized, subhedral.
EC16-54	31.4	31.41	QV	N	65	70	Yes	Grey massive coarse grained quartz vein, 5% vugs with dark brown earthy coating.
EC16-54	31.6	31.61	QV	N	55	57	Yes	light grey, massive quartz vein minor vugs/ crystal spaces (carbonate?).
EC16-54	31.7	31.71	QV	N	45	50	Yes	5 cm coarse grained massive blocky quartz vein, no sulfides/ dry.
EC16-54	31.8	31.81	QV	N	59	57	Yes	Light grey, massive quartz veinlet as above. Minor pyrite in selvage --> older.
EC16-54	32	32.01	QV	N	50	51	Yes	Light grey, massive quartz vein. 4 cm. Tight.
EC16-54	32.1	32.11	QV	N	47	49	Yes	Vuggy light grey coarse grained quartz veinlet without pyrite.
EC16-54	32.5	32.51	QV Zone	N	53	53	Yes	Set of two vuggy light grey coarse grained quartz veinlets.
EC16-54	36.8	37.1	QV	N	29	50	Yes	Light grey massive coarse grained quartz vein with 5% vugs, vugs with terminated quartz crystal + dark brown and blocky (carbonate?) dusting. WRI wispy with rare oxidized pyrite.
EC16-54	38.4	38.7	QV	N			Yes	White massive quartz, rubbly with oxidized fractures.
EC16-54	39	39.2	QV	N	52		?	White, massive quartz vein with folded WRI. Fold nose?
EC16-54	39.8	39.81	QV	N	29	75	?	10 cm irregular folded ? quartz vein fractured with chlorite + carbonate, carbonate + FeOx by at base.
EC16-54	40.55	40.56	QV	N	75	30	?	7 cm irregular folded quartz vein, massive, light grey with wall rock and carbonate inclusions.
EC16-54	42.2	42.35	QV	N	48	22	No	Layered quartz foliaform veinlets with interstital chloritized wall rock inclusions, pyrite 1% oxidized, euhedral, fine grained.
EC16-54	42.6	42.9	QV	N	56	35	?	Irregular massive light grey quartz, possible fold nose with 0.5% oxidized pyrite + altered wall rock inclusions.
EC16-54	43.1	43.11	QV	N	85	79	Yes	Massive light grey quartz vein, vugs half filled with carbonate. Trace pyrite along down hole contact.
EC16-55	8.7	8.9	QV	N	80	40	No	Massive light grey quartz foliform / fold vein, thin chlorite after wall rock septae???.

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EC16-55	15.1	15.11	QV	N	65	40	Yes	Massive light grey blocky quartz vein, cut by MgO and carbonate fractures. Hanging wall weakly sericite ? (light green) altered. Minor oxidized euhedral pyrite in selvages.
EC16-55	15.6	15.61	QV	N	35		Yes	Rubbly massive light grey quartz vein cut by MgO / oxidzation brown fractures.
EC16-55	15.95	15.96	QV	N	55	50	Yes	Light grey massive quartz vein cut by MgOx fractures and wall rock fragments, porp to vein walls. Foliation kinked into vein at contacts. Possibly within fold.
EC16-55	16.76	17	QV	N	15	30	?	Light grey massive quartz vein, possibly within fold, cut by carbonate + MgOx fractures porp to walls, carbonate + chlorite clots on margins 3 x 3 cm.
EC16-55	17.5	17.51	QV	N	40		No	White massive quartz vein / sweat with carbonate + epidote and chlorite clot 4 x 2 cm.
EC16-55	19.81	19.82	QV	N	70		?	Rubbly massive white quartz vein. Carbonate and reddish oxidization on fractures.
EC16-55	20.15	20.16	QV	N	70		Yes	Light grey, blockly quartz vein, massive with MgOx fractures + 5 mm carbonate vugs.
EC16-55	21.6	21.9	QV	N	40	35	Yes	Light grey massive quartz vein with brown clay / MgO? fractures porp to walls along crystal faces, 5% 1 cm vugs with carbonate and clay infill.
EC16-55	22.2	22.21	QV	N		60	Yes	Light grey massive quartz vein with brown oxidization and clay fractures porp to walls. Limonitic down hole fractures. Coarse grained ehuedral pyrite oxidized in selvages.
EC16-55	22.95	22.96	QV	N	55	50	?	Light grey massive quartz vein, brown clay filled vugs 1 cm, 5%. FeOx and carbonate on selvages.
EC16-55	23.8	23.81	QV	N	63	80	?	x-cutting a folded veinlet or folded itself. Massive light grey quartz vein with wall rock septae?? porp to contacts.
EC16-55	24.9	24.91	QV	N	58	62	Yes	Rubbly massive light grey quartz vein with 10% clay + MgO infill.
EC16-55	26.15	26.16	QV	N	70	80	Yes	Set of two 1 cm light grey quartz veins with dark margins and weakly bleached selvages.
EC16-55	27.15	27.16	QV	N	20	20	Yes	5 mm light grey blocky / extensional quartz veinlet, ankerite pits / vugs.
EC16-55	27.5	27.8	QV	N	35	45	?	Light grey massive quartz vein, angular wall rock contacts, possibly fold nose, dark fractures.
EC16-55	27.95	27.96	QV	N	85	75	Yes	2 cm light grey, massive quartz fractured porpp to walls, ankerite stringers, oxidized pyrite in selvages.
EC16-55	28.6	28.8	QV	N	30		No	Massive light grey quartz vein, carbonate on fractures, foliation in hanging wall folded - fold nose.
EC16-55	33	33.01	QV	N	60	35	?	Massive white quartz vein cut by stkwk of oxidization fractures, chlorite clots 5% (after WR?). Fold nose?
EC16-55	34.8	34.81	QV	N	70	74	Yes	Patchy grey rough looking quartz vein, brown clay clots in trains along contacts.
EC16-55	35	35.01	QV	N	50	55	Yes	Fractured dark grey old looking quartz veinlet with chlorite in core.
EC16-55	35.15	35.16	QV	N	80	76	Yes	2 cm grey massive fractured rough looking quartz veinlet, patchy sericite in foot wall.
EC16-55	37.3	37.31	QV	N	66	70	Yes	Light grey massive quartz vein, cut by fractures porp to vein walls, clay fractures? clots? along boundaries.
EC16-55	37.8	37.81	QV	N	70	75	Yes	5 cm massive light grey quartz vein, fractured with dark brown and light tan infill with thin altered WR septa in core.
EC16-55	52	52.01	QV	N	80	78	?	3 cm massive light grey quartz vein with wisps of MgO. Contacts rubbly.
EC16-56	41.9	42.5	QV	N	40	75	?	Light grey massive coarse grained quartz vein, wall rock fragments angular 1 - 5 cm, pyrite oxidized, subhedral, within sericite altered WR. MgO fractures. Possibly fold nose.
EC16-56	46.5		QV	N			?	Silicified and oxidized schist with quartz veins irregular + boudinaged.
EC16-56	58.1		QV	N	80	84	Yes	1 cm grey quartz veinlet, carbonate along contacts, old looking, 2% MgO fine grained clost within carbonate + streaks?? in quartz.
EC16-56	58.4		QV	N	70	74	Yes	7 cm light grey massive quartz vein. MgO fractures in footwall, minor WRI --> chlorite, MgO dendritic into footwall.
EC16-57	2.65	2.66	QV	N			?	Rubble just below casing. Redrilled massive light grey quartz vein, minor oxidized pyrite, 3% MgO fractures + clots within quartz.
EC16-57	3.9	3.91	QV	N	52	58	?	2 cm grey quartz vein, cut by carbonate fractures, older than nugget veins / slightly deformed.
EC16-57	6.95	6.96	QV	N	50	80	No	2 cm light grey quartz vein, massive, pinch and swell, cut by irregular carbonate stkwk.
EC16-57	8.3	8.31	QV	N	45	70	Yes	Light grey, 4 cm massive quartz vein, cutting foliation and looks folded, wisps of chlorite and carbonate in selvages, cut by FeOx + MgO fractures. Oxidized pyrite in hanging wall.
EC16-57	10.9	10.91	QV	N	70	60	No	Light grey, massive quartz vein, irregular wall rock inclusion likely fold nose. Oxidized, subhedral pyrite associated with carbonate clots and discontinuous stkwk.
EC16-57	13.6	13.61	QV	N	60	65	No	Set of 4-6 cm wide quartz foliaform veinlets cut by discontinuous carbonate stringers with 1% oxidized, subhedral pyrite, fine grained.
EC16-57	40.8	40.9	QV	N	70	50	?	Massive light grey quartz vein with WRI in thin lines porp. to vein walls. Minor carbonate + MgO after WRI. Fold nose?
EC16-57	42.4	42.41	QV	N	70	50	No	Irregular / folded massive light grey quartz vein cut by dark chlorite? fractured.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
EC16-57	57.4	57.41	QV	N	60	58	No	Light grey 8 cm massive quartz foliform vein with folded hanging wall contact + vuggy gougy faulted foot wall. Minor oxidized pyrite in hanging wall.
LS16-58	5.5	5.53	QV	N	75	50	No	Milky white ?foliaform QV with 10% (black Mn coated) open space cavities HW contact is foliform but vein pinches.
LS16-58	5.7	5.72	QV	N	75		No	Pitted 2 cm wide foliform QV with large open space cavities coated in Mn.
LS16-58	5.9	5.91	QV	N		80	No	Yellow foliform QV with internal quartz breccia with grey quartz infill.
LS16-58	6.4	6.47	QV Zone	N			No	Zone of yellow very pitted deformed discontinuous foliform QV's.
LS16-58	7.15	7.17	QV	N	80		No	< 3 cm wide internally brecciated foliform QV, minor hematite staining in QV.
LS16-58	7.4	8.4	QV Zone	N			No	Zone of concentrated deformed and pitted foliform QV up to 3 cm wide; abundant FeOx.
LS16-58	8.4	8.6	QV	N	85	70	Yes	Milky white x-cutting 20 cm QV with 1% rusty (locally cubic) FeOx blebs within QV + 2% euhedral pyrite along FW contact; vein is tight with rare open space.
LS16-58	8.9	8.92	QV	N	75		No	Pinching recrystalized foliform QV.
LS16-58	10.3	10.31	QV	N		75	No	Pinching recrystallized foliform QV.
LS16-58	13.4	13.55	QV Zone	N			No	Zone of discontinuous white pitted recrystallized quartz vein lenses in a chlorite and epidote, manganese rich matrix.
LS16-58	14.9	15.8	QV Zone	N		40		Zone of broken fractured locally boudinaged quartz vein material in fault; highly contored foliaform quartz veins different from these; @ 15.6 - 15.8 m is a 6 x 2 cm wide lense of broken white QV at lower contact of fault, limonitic parting in quartz with < 1% euhedral 1-2 mm pyrite along lower contact.
LS16-58	16.9	17	QV	N	65		Yes	Broken lower contact; up to 6 cm wide main quartz vein with a 7 mm "tail" that cross cuts SCH foliation @ 90 degrees tca.
LS16-58	17.9	18.1	QV Zone	N			Yes	Broken contacts; Zone of broken white QV up to 3 x 4 cm fragments with 3 mm across euhedral pyrite cubes in quartz; limonitic.
LS16-58	20.2	20.45	QV Zone	N	80	75	Yes	Zone of 90% QV material of mostly off yellow white foliform veins + clear and grey quartz stringers; 2% rusty pyrite in quartz.
LS16-58	21	21.5	QV Zone	N			No	Zone of rusty pitted mostly foliform quartz veinlets + clear quartz and 2 cm open space cavities lined with FeOx + Mn and epidote.
LS16-58	22.5	22.53	QV	N	80		No	White quartz vein - likely foliform pitted with Mn coated fractures.
LS16-58	22.9	22.91	QV	N			No	1 cm wide limonitic foliform quartz with interval rusty fractures + epidote.
LS16-58	23.25	23.9	QV Zone	N			No	Zone of concentrated white and grey quartz sweats locally fractured 90 degrees to margin of vein, trace fine grained pyrite in quartz selvage at 23.65 m.
LS16-58	28.5	28.9	QV	Y	25	25	Yes	White rusty quartz vein cross cuts sericite SCH; vein has common very thin hair width limonitic fractures + clots of fine grained pyrite in cubic outlines; rusty open space cavities + epidote. Second clear - white QV 80 degrees tca at 28.5 m Mn also coats fracutes. 3 specs of VG - 1 spec in pyrite at 28.7m 2 more specks of VG in same vein at 28.5 also hosted on edges of cubic pyrite (7 specs in total in vein when cut some VG in sample bag - 2 more as 0.5 mm ragged clots on edge of 1.2 cm cubic pyrite cavity at 28.75 m.
LS16-58	30.5	30.6	QV	N				Broken contacts; milky white QV with black Mn fractures; blebs of euhedral pyrite in quartz rare open space cavities (lined with Mn).
LS16-58	31.8	32	QV	N		70	Yes	Milky white QV with common limonitic fractures within vein; rare open space aloso limonite coated; trace fine grained pyrite along LC.
LS16-58	38	38.2	QV Zone	N			No	Zone of deformed foliform quartz vein lenses stylolitic contacts discontinuous with epidote at margins, trace euhedral pyrite within quartz.
LS16-58	40	40.1	QV	N	55	60	?	Rusty orange / white QV with rusty selvages plus fractures 90 degrees tca to vein boundaries with trace pyrite along lower margin.
LS16-58	42.15	42.18	QV	N	75		No	3 cm foliform QV rusty with secondary quartz flooding and 1 mm sized rusty pits.
LS16-58	44.2	44.25	QV	N				5 cm irregularily shaped foliform quartz sweat with secondary patchy of silica flooding and pits.
LS16-58	45.5	45.56	QV Zone	N		60	No	Zone of 3 wavy bounded QV fractured and reactivated, pitted with cockade infill local jarosite alteration and tan clay.
LS16-58	46	46.15	QV	N		55	Yes	Orange stained QV with common interval fractures with thick FeOx coating and veins x-cutting the main quartz; multi-injection.
LS16-58	48.9	48.93	QV	N		70	No	Pitted white QV ?foliform, pitted and leached, < 3 cm wide.
LS16-58	53.3	53.33	QV	N	70		No	Orange stained foliform QV's < 3 cm wide.

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LS16-58	56.4	56.65	QV	N	60	25	Yes	Milky white heavily fractured QV with 4 mm thick FeOx / limonite + Mn fractures, < 1 cm clot dull grey, fine grained sulphide? in quartz vein; epidote at upper contact.
LS16-58	60	60.86	QV Zone	N				Zone of light grey clear boundinaged quartz stringer + white stringers + mn clots; minor fine grained pyrite, euhedral.
LS16-58	60.85	60.9	QV	N		65	No	5 cm wide buff and white quartz carbonate stringer ribbon vein along foliation; wavy contacts.
LS16-59	3.05	7.62	QV Zone	N				Overburden with 10% rounded QV fragments up to 5 cm long at start of hole.
LS16-59	8.4	8.42	QV	N		70	No	Foliaform white quartz stringer with hair wideth graphitic partings 90 degrees to vein margins.
LS16-59	10.8	11	QV Zone	N		70	No	Zone of concentrated foliform + ?x-cutting quartz stringers which are deformed and re-veined; 1% rusty pyrite.
LS16-59	11.4	11.42	QV	N	65		No	2 cm wide white recrystalized foliform vein with pyritic lower selvage.
LS16-59	11.7	11.74	QV	N	70		No	Light grey 2 foliform < 2 cm QV pitted with graphitic partings in quartz.
LS16-59	12.8	12.9	QV Zone	N	30	30	Yes	Zone of broken fractured orange ?foliform and x-cutting QV up to 3 cm wide.
LS16-59	13.9	14	QV Zone	N		50	No	Zone of limonitic QV boudinaged and truncated.
LS16-59	14.22	14.24	QV	N			No	< 2 cm wide QV fractured limonitic.
LS16-59	17.05	17.06	QV	N		70	No	1 cm boudinaged orange limonitic QV with pyrite / FeOx lower contact; pitted.
LS16-59	17.5	17.505	QV	Y		65	Yes	3-5 mm wide x-cutting limonitic internally fractured QV with 3 specs of VG. VG size 0.5 mm max. VG associated with cubic pyrite
LS16-59	17.62	17.624	QV	N	60		Yes	4 mm x-cutting boudinaged limonitic QV.
LS16-59	17.84	17.9	QV	N			Yes	Irregular shaped fractured limonitic QV foliform + x-cutting? < 3 cm wide blownout.
LS16-59	18.9	18.904	QV	N	55	55	Yes	Thin fracture / discontinuous blebby - boudinaged shaped rusty fractured QV up to 4 mm wide in a rusty x-cutting fracture 55 degrees tca. 2 mm VG clot on FW side of QV lens proximal to 1 mm rusty pyrite cubes but not touching quartz.
LS16-59	20.7	20.71	QV	Y		70	No	2.5 mm angular clot of VG found white cutting interval; gold within 13 mm blebby shaped oxidized thin quartz stringer along foliation, internally fractured; FeOx cubic pits.
LS16-59	23.5		QV Zone	N			?	Zone within faulted dyke of broken chips of intensely rusty dyke + 10% white QV chips.
LS16-59	26.95		QV Zone	N			?	Felsic dyke interval with 3 < 2 cm wide white quartz fragments / lenses with cubic pyrite.
LS16-59	27.9		QV Zone	N			?	Zone of 5% white QV chips in faulted dyke FW rusty sheared unit.
LS16-59	30.4	30.6	QV	N	65	65	Yes	Nice fractured QV (with later 1 cm x-cutting fracture fill at 30.5 at 65 degrees tca); cubic cavities up to 1.5 cm across; trace cubic pyrite.
LS16-59	31.3	31.32	QV	N			No	Non planar contacts; 1 --> 2 cm pinching foliform QV, very rusty and fractured pitted.
LS16-59	32.3	32.33	QV	N	70		No	2.5 cm wide white fractured quartz sweat with pyritic selvages.
LS16-59	32.5	32.57	QV	N	70	68	No	7 cm wide white QV with very common internal fractures and reveining 3% pyrite in fractures in QV; reworked vein.
LS16-59	33.4	33.5	QV Zone	N	75	75	No	Zone of two broken and boudinaged QV;s up to 2 cm wide pyrite selvages.
LS16-59	33.6	33.7	QV	N	80		No	Fractured white QV < 10 cm wide with rusty fractures gougy lower FLT contact (5 cm orange gouge) + Mn.
LS16-59	33.85	33.95	QV Zone	N			?	Zone of mostly rusty QV material but no clear boudaries? reworked foliform; 2% fine grained pyrite cubes.
LS16-59	34.2	34.23	QV	N			No	Quartz lens - white lens of foliform QV; sericite selvages.
LS16-59	34.7	34.77	QV	N			Yes	frothy porous FeOx hosted sheared broken 2 cm wide QV locally breccia coincides with drastic foliation change 2 degrees tca.
LS16-59	35.3	35.34	QV	N	70	80	Yes	Milky white QV with xsolution fractures limonitic with 1% 0.5 mm pyrite cubes at lower contact.
LS16-59	35.9	36.2	QV Zone	N	55	55	No	Zone of three lenzoidal shaped foliform rusty and locally pitted white QV;s < 2 cm.
LS16-59	36.8	36.9	QV Zone	N	70	70	No	Zone of 3 quartz sweats < 2 cm wide along foliation 70 degrees tca; 2% FeOx + pyrite.
LS16-59	37.4	37.47	QV Zone	N	65	65	No	Zone 3 quartz sweats fractured with sericite margins discontinuous < 3 cm wide.
LS16-59	37.5	37.8	QV	N	70		No	White tight QV upper contact foliform, lower contact broken and non planar sericitic wall rock layer < 2 cm wide.
LS16-59	37.9	37.96	QV	N	75	50	No	6 cm wide crystalized yellow and clear quartz angular crystal growth; pyrite cubes.
LS16-59	38.3	38.5	QV Zone	N				Zone of broken white QV rubble and rusty foliform thin stringers (QV < 10%).
LS16-59	39.5	39.7	QV Zone	N				Zone broken foliform quartz stringer < 8 mm wide.
LS16-59	40.2	40.65	QV Zone	N			Yes	Zone of large vein or perhaps 2 QV's separated by 2.5 cm wall rock; QV's fractured perpendicular to contacts with FeOx + fine grained pyrite; locally brecciated at upper contact; pitted with open space.
LS16-59	44.75	44.77	QV	N	80		No	2 cm wavy contact grey fractured.
LS16-59	45.7	45.73	QV	N			?	3 cm wide rusty broken QV at start of interval; 2% euhedral pyrite 1 mm cubes.

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LS16-59	48.9	59.2	QV	N			?	Zone of shattered white quartz fragments < 2% overall.
LS16-59	56.9	57.3	QV Zone	N				Zone of concentrated foliform quartz lenses < 3 cm wide and discontinuous.
LS16-59	60.6	60.35	Other	N	60	60	Yes	Zone of 5 sub parallel x-cutting 1 mm rusty fractures, trace euhedral pyrite.
LS16-60	2.13	2.2	QV	N			No	White to clear quartz vein in the overburden rubble at start of hole; pitted with FeOx/ Mn? coated open space cavities.
LS16-60	4	4.06	QV	N			No	Fractured white and grey QV with abundant interval fractures containing mica and FeOx.
LS16-60	4.15	4.25	QV	N			?	White broken QV with common mica + Mn in vein as thin partings often 80 degrees to vein contacts.
LS16-60	8.9	8.92	QV	N	70		No	2 cm white foliform QV with > 1 cm coarse crystal / quartz infill open spaces.
LS16-60	9.65	9.67	QV	N		75	No	2-3 cm pincing white QV epidote margins.
LS16-60	10.6	10.602	Other	N	25	25	?	Set of 3 parallel thin rusty fractures 25 degrees tca.
LS16-60	13.5	13.52	QV	N	50		Yes	2 cm grey quartz with tan ankerite in quartz.
LS16-60	14.4	14.43	QV	N			?	2-3 cm wide patch of grey QV
LS16-60	18.35	18.37	QV	N			No	2 x 3 cm lens of Mn coated clear QV.
LS16-60	19.15	19.19	QV	N			No	4 cm wide clear QV; pitted adn Mn fractures perpendicular to QV margins; large open space cavities.
LS16-60	19.6	19.63	QV	N			No	Clear QV 1-3 cm wide broken, trace pyrite cubes margins.
LS16-60	21.8	21.82	QV	N	85		Yes	Two 1 cm wide sub parallel x-cutting QV pitted with FeOx cubic pits along lower margin.
LS16-60	25.5	26.1	QV Zone	N			?	Zone of discontinuous oxidized fractured milky white QV's with 2 - 5 mm cubic pits locally filled with clay.
LS16-60	27.25	27.28	QV	N	45		Yes	3 cm wide x-cutting intense FeOx with 4 mm quartz stringer x-cutting unit 45 degrees tca.
LS16-60	28	28.3	QV	N			?	Zone of concentrated rootless white QV fragments 2 x 5 cm many sub angular patches of discontinuous milky white QV with yellow clay (??after feldspar) clots along selvages.
LS16-60	29.1	29.13	QV	N		90	Yes	3 cm quartz / carbonate stringer with open space and rusty cubic (3 mm) pits (of leached pyrite?).
LS16-60	32.4	32.6	QV Zone	N	50		Yes	Zone of QV's cracked and limonite stained 90 degrees to vein margins, common open space; box work texture FeOx.
LS16-60	34.4	34.5	QV Zone	N				Zone of 5% white QV fragments in FLT gouge; QV fragments < 1 cm and angular with limonite.
LS16-60	38.6	38.7	QV	N			Yes	Orange stained highly fractured QV with 15% sericite host in vein + large rusty pyrite cubes in QV + smaller rusty pyrite < 3% along margins.
LS16-60	40.85	40.87	QV	N	75		No	2 cm white pinching QV, internal fractures; Mn trace.
LS16-60	43.3	43.34	QV	N		60	No	< 4 cm wide white foliform QV
LS16-60	45.8	46.4	QV Zone	N	60	60	No	Zone of concentrated foliform QV white with black partings. 1% euhedral pyrite cubes in quartz stringer < 2 cm wide.
LS16-60	47.85	48	QV	N	70	72	No	Dirty white QV with 1 cm muscovite / sericite band in quartz. Grey quartz mottled in white quartz; < 3 cm x 5 cm open space cavity with Mn coating quartz crystals < 3 mm growing into cavity, trace 1 mm pyrite cubes on margins.
LS16-60	55	56.8	QV Zone	N			No	Contacts 40-80 degrees tca. Zone of concentrated dirty white ad grey mottled and pitted foliform QV's up to 20% of interval; sericite / chlorite selvages. Very irregular contacts; locally discontinuous localized rusty < 2 mm pyrite cubes in quartz. 56.67 m - 5 mm wide with 1% rusty cubic pyrite, 90 degrees tca contacts.
LS16-60	58.2	58.4	QV Zone	N	70	70	No	Zone of concentrated + minor carboante (after feldspar) in quartz sweats, < 2 cm wide.
LS16-60	59.1	59.13	QV	N			No	3 cm white quartz / carbonate foliform vein with 3% rusty < 3 mm wide cubic pyrite in quartz.
LS16-60	59.9	60.05	QV Zone	N	50		No	Zone of rusty QV's foliform + x-cutting / quartz flooding with 2% 3 mm rusty pyrite cubes.
LS16-60	63.35	63.6	QV Zone	N	55	80	Yes	Zone of multi-generations of QVing with milky white veins and clear quartz flooding and rare brecciation cemented in quartz very mottled with 5% sericite / muscovite partings within vein; reworked foliform vein? < 1% rusty 2 x 3 mm pyrite in quartz and along selvages.
LS16-60	64.95	64.97	QV	N			No	2 cm foliform clear and grey quartz sweat with < 1% rusty euhedral pyrite selvages and white 2 x 3 mm clots of ?carbonate in quartz after feldspars.
LS16-61	11.2	11.22	QV	N	40	40	?	< 2 cm wide quartz stringer with rusty selvages; trace cubic pyrite at lower contact with muscovite SCH.
LS16-61	13.6	13.8	QV Zone	N		15	?	Zone of mottled clear to pale white quartz with pits and clay filled ?feldspar 2 x 1 mm rectangles in quartz; 1% cubic pyrite selvages - rusty.
LS16-61	17.8	18.3	QV Zone	N			Yes	Broken upper contact; broken fractured white QV with 20% host; QV fractured into 3 cm rounded patches cubic pyrite < 2 mm along fractures.
LS16-61	19.5	19.8	QV Zone	N			No	Wavy sub parallel tca contacts, 1/30 f core is wavy orange QV rusty with large open space cavities; trace euhedral pyrite selvages.

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LS16-61	27	27.1	QV Zone	N			No	2 cm wide dirty white foliform Mn partings quartz stringer.
LS16-61	31.3	31.8	QV Zone	N		15	No	Zone of orange rusty QV.
LS16-61	36.6	37.4	QV Zone	N	45	75	Yes	Milky white fractured QV with 20% wall rock inclusions (sericite - muscovite SCH); HW has 3 1 mm x 3 cm long rusty cubic pyrite trains parallel upper contact; 2% euhedral pyrite on quartz stringers.
LS16-61	45.5	45.7	QV Zone	N	30	40	Yes	3 cm wide QV at 45.5 rusty and broken and two sub parallel < 2 cm wide QV @ 45.65 m with 3% euhedral pyrite cubes in QV + SCH.
LS16-61	46.5	46.65	QV	N	40		Yes	15 cm wide white and clear quartz - multi injection of quartz; non planar contact running partially down core axis; 1% < 3 mm euhedral pyrite cubes along QV selvages.
LS16-61	47.3	48.5	QV	N	40		Yes	QV of white and clear quartz recrystalized multi injection of fluids; common pits ad ghosty relic ?feldspars --> carbonate?, 2% euhedral rusty pyrite in QV + stringers
LS16-61	49.9	50.3	QV Zone	N	55		Yes	Zone of 80% white QV; HW contact and 1st 5 cm 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 and clear (two phases).
LS16-61	50.5	50.33	QV	N			Yes	3 cm wide rusty x-cutting white QV with internal fracture perpendicular to selvages, 1% cubic rusty < 2 mm pyrite in quartz.
LS16-61	52	56.5	QV Zone	N			No	Zone of rusty ~ 15% rounded discontinuous locally pyritic ?foliform quartz lenses < 5 cm wide.
LS16-61	56.2	56.23	QV	N	35	35	?	More planar orange stained ?foliform or x-cutting 3 cm wide QV with trace cubic pyrite in quartz.
LS16-61	56.5	56.75	QV	N	70		Yes	White QV with limonitic interval fractures 1% cubic pyrite selvages, trace galena, < 2 mm spec in quartz near lower margin.
LS16-61	56.75	57.8	QV Zone	N			Yes	Zone of 30% fractured QV;s in limonitic fault gouge.
LS16-61	59.8	60.3	QV Zone	N			No	Zone of < 3 cm wide rusty white ?foliaform QV along wavy foliation, trace pyrite cubes.
LS16-61	64.1	64.2	QV Zone	N		25	Yes	2 cm wide QV ?x-cutting with 3 mm rusty FeOx pyritic selvages; < 1% pyritic observed but oxidized.
LS16-61	66.2		Other	N				Fracture at lower angle tca found while cutting with coarse galena and chalcopyrite and pyrite - late and cuts through pyrite and chalcopyrite.
LS16-62	4.3	4.34	QV	N				3.5 cm wide tightly folded white broken foliaform quartz stringer in fold nose.
LS16-62	5.55	5.57	QV	N	75		Yes	< 2 cm wide dirty white x-cutting QV with dull black ?Mn partings in quartz trace very fine grained pyrite cubes along selvages.
LS16-62	5.7	5.71	QV	N	80		Yes	1 cm wide white quartz stringer x-cutting with trace very fine grained pyritic selvages.
LS16-62	5.95	5.97	QV	N	75	75	Yes	2 cm wide white QV with 1 mm ribbons of sericite / mica parallel to QV selvages in quartz; no sulphides.
LS16-62	6.35	6.36	Other	N				Late ragged white x-cutting late < 1 cm carbonate vein.
LS16-62	6.95	6.956	QV	N	55	55	Yes	6 mm wide white quartz stringer x-cutting, trace pyrite.
LS16-62	7.25	7.256	QV	N	60		Yes	6 mm wide dirty white quartz stringer with pyrite.
LS16-62	9.1	9.5	QV Zone	N				Zone within fault of < 30% white QV chips abundant FeOx (?oxidized sulphides).
LS16-62	11.4	11.404	QV	N		75	Yes	4 mm wide white and grey quartz + ?carbonate stringer
LS16-62	11.65	11.68	QV	N	55	65	Yes	< 3 cm wide rusty mottled QV with 2 mm pyrite trains.
LS16-62	12.4	12.44	QV	N	60		No	1-4 cm wide wedge of dirty grey QV ?foliaform? with Mn partings.
LS16-62	14.5	14.503	QV	N	45		Yes	3 mm milky white quartz + FeOx fracture fill x-cuts white 5 mm foliaform with 3 mm rusty pyrite cubes in foliaform and x-cutting QV selvage. 1 local pyrite cubic rusty in x-cutting and fol.
LS16-62	15.8	16.1	QV Zone	N	70		No	Zone of concentrated dirty white foliaform QV, < 1.5 cm wide, locally fractured and brecciaed, pitted zone of dirty white.
LS16-62	21.4	21.5	QV Zone	N	70		No	Zone of dirty white.
LS16-62	21.6	21.7	QV	N	70		No	Foliaform pitted pale yellow oxidized QV with wavy contacts 70 - 80 degrees tca, 10% open space FeOx filled cavities.
LS16-62	26.8	26.89	QV	N	50		No	9 cm wide pitted dull white oxidized foliaform pitted QV.
LS16-62	27.65	27.67	QV	N		50	No	1.5 cm wide clear and white quartz / carbonate vein with rusty selvages along foliation.
LS16-62	27.8	27.87	QV	N	38		No	3 cm true width foliaform white quartz stringers with wavy contacts; 1% euhedral pyrite.
LS16-62	28.95	28.955	QV	N	40		Yes	5 mm x-cutting white with rusty selvages cuts foliation at high angle, pitted trace pyrite.
LS16-62	39.23	39.25	QV	N	60		No	< 2 cm wide milky white ?foliaform QV with epidote and sericite inclusions.
LS16-62	41.15	41.17	QV	N		75	No	2 cm white quartz (+ lesser carbonate)
LS16-62	41.5	41.52	QV	N			No	Wedge shaped 2 cm quartz lens with fuchsite selvages up to 4 mm thick.
LS16-62	43.3	43.4	QV Zone	N				Zone within fault of 2 cm3 QV fragments in gouge.
LS16-62	46.3	46.33	QV	N	75	75	No	3 cm white foliaform quartz lens along foliation with mica + pyrite concentrated along quartz selvages.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-62	64.55	64.65	QV	N	80		?	White (with tan / beige carboante) QV up to 8 cm + foliaform? 1.5 cm wide QV.
LS16-62	64.55	64.9	QV Zone	N			?	Zone of 70% deformed mottled QV's up to 3 cm lenses in FeOx sericite SCH, pitted.
LS16-62	65.9	65.92	QV	N				2 cm2 x 3 mm thick slab of QV pitted with 2% local concentration of cubic pyrite.
LS16-62	66.44	66.444	QV	N	65		Yes	4 mm x-cutting white QV with carbonate along upper contact, pitted, trace pyrite.
LS16-62	70.2	70.5	QV Zone	N			?	Zone of complex clear quartz with two phases of quartz evident in most veins.
LS16-62	72	72.2	QV	N	80		Yes	Limonitic QV 8 cm wide x-cutting foliation with large goethite coated open space cavities 90 degrees to vein selvages (xsol textures).
LS16-62	78.7	78.73	QV	N	90	80	Yes	3 cm wide rusty selvages milky white QV with dendritic pyrolusite on fractures.
LS16-62	80.6	80.8	QV	N			?	Zone of milky white QV fragments and lenses with graphite locally along fractures.
LS16-62	100.2	100.4	QV Zone	N	30		Yes	2 cm wide QV low angle tca with open space with 3 mm very shiny pyrite cube and tarnish pyrite.
LS16-62	101.2	102.11	QV Zone	N			?	Zone of highly deformed wavy contact quartz sweats, rusty with cubic pyrite.
LS16-63	8.5	8.53	QV	N	90	90	No	3 cm wide grey quartz sweat (veinlet) with blue - black blemishes along fracture.
LS16-63	42.1	42.2	QV	N	75	75	?	Milky snow white quartz vein 10 cm wide; sharp contact; very fine grained, euhedral pyrite near selvages (FW and HW) with parallel fractures at UC and LC. Sharp contact but broken. One set of spaced (2 cm) fractures at 5 degrees tca - no pyrite in these fractures.
LS16-63	48.34	48.54	QV	N				8 cm wide fracture with disseminated pyrite along fracture, 10% dark chlorite / limonite WRI.
LS16-63	60.05	60.11	QV	N	70	70	No	6 cm wide foliaform quartz sweat with mottled sulphide rich selvages that include increase fine grained, euhedral (shiny) pyrite "cluster trains" in blue - black blemishes (altered sulphides?) and patchy limonite. The quartz sweat has pronounced planar fracture set perpendicular to the selvages. Foliaform sweat is 70 degrees tca.
LS16-64	2.8		QV	N			?	Recovered during casing - white QV rubble <3 cm3 with rusty fractures.
LS16-64	3.53	3.58	QV	N			?	Lower contact is broken, 3 cm white (tight) QV with rusty fractures.
LS16-64	4.3	4.31	QV	N		80	Yes	1 cm wide x-cutting white.
LS16-64	8.75	8.9	QV	N		45	Yes	Upper contact broken; White mottled QV with 1% cubic pyrite in quartz with Mn on fractures (hair width).
LS16-64	9.25	9.27	QV	N	25		No	< 2 cm white foliaform QV's
LS16-64	9.8	9.85	QV	N			?	two > 2 cm white QV fragments with Mn (x soln texture) fractured in quartz.
LS16-64	10.2	10.24	QV	N	35		No	4 cm pinching white QV with thin ribbons of SCH mica in quartz.
LS16-64	14	14.1	QV Zone	N	50	50	Yes	Two merging (conjugate sets ?) of discontinuous QV < 2 cm.
LS16-64	15.6	15.7	QV Zone	N		80	?	Zone of pitted rusty SCH with 2 < 2 cm wide white QV's (Q1 quartz crystal open space infill) < 1% cubic pyrite in quartz + concentration along foot wall selvage.
LS16-64	15.75	15.85	QV Zone	N	40		Yes	Broken rusty shattered white QV fragment / slice; 1 cm3 open space cavity with FeOx, pitted trace pyrite in quartz.
LS16-64	22.2	22.23	QV	N			Yes	1 x 3 cm slice of white QV with cubic pyrite in altered oxidized interval.
LS16-64	23.6	23.9	QV Zone	N			?	Broken upper and lower contacts; pitted rusty QV rich zone; cubic pits < 3 mm.
LS16-64	25.46	25.55	QV	N	50	60	No	< 9 cm wide milky white QV, foliaform; no limonitic and no sulphides seen.
LS16-64	32.22	32.25	QV	N				3 cm dirty white / grey quartz.
LS16-64	36.71	36.8	QV	N	60	75	?	9 cm milky white QV with very thin hair wide fractures with pyrolusite pitted.
LS16-64	38.95	39.03	QV Zone	Y	60		No	Zone of white foliaform quartz with semi massive (20%) local concentration of euhedral pyrite + VG?
LS16-64	41.85	42.05	QV Zone	N			?	Rusty broken zone with 20% orange stained QV; very small fault with cubic pyrite.
LS16-64	54.9	55.4	QV Zone	N			No	Zone of concentrated white foliaform QV at end of SCH-lam unit; common mica in quartz.
LS16-64	64.8	64.83	QV	N	45		Yes	1.5 cm pinching / swelling rusty x-cutting limonitic QV with 2 mm pyrite cube.
LS16-64	65.1	65.11	QV	N	80		Yes	1 cm x-cutting rusty QV, pitted with limonite, trace euhedral pyrite along lower contact.
LS16-64	67.85	67.87	QV	N	60		No	2 cm rusty limonitic QV 60 degrees tca fractured perpendicular to selvages, trace pyrite.
LS16-64	69.81	69.9	QV	N	50	55	Yes	4 cm x-cutting? QV + silica flooded quartz patch alogn HW; fine grained sulphides ?sulphosalt? in quartz.
LS16-64	74.6	74.8	QV Zone	N	65	65	No	65 - 75 degrees tca contacts; Zone of concentrated < 1 cm foliform quartz up to 20%.
LS16-64	83.4	83.9	QV	N				FLT gouge + 0.5 m LOST + 2 cm3 QV fragments in broken faulted unit.
LS16-64	87.8	89.2	QV Zone	N	50	50	?	Zone of rusty QV < 2 cm wide along foliation with 2-3 mm rusty pyrite cubes in pyrite ?
LS16-64	90.3	90.31	QV	N	45		No	Rusty quartz / carbonate stringer with Mn dendrites coating lower contact, trace oxidized pyrite cubes.
LS16-64	96.5	96.58	QV	N	65	65	No	8 cm wide fractured foliaform? QV contains 10% sericite in quartz, Mn lower contact.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-64	101.2	101.24	QV	N	75	75	No	4 cm white sharp bounded ?foliaform QV with 1% open space pits, no sulphides.
LS16-64	103.3	103.304	QV	N	60		Yes	4 mm wide x-cutting QV with rusty blebs in quartz, trace carbonate in stringer.
LS16-65	3	3.8	QV Zone	N		45	?	Broken upper contact; > 40 cm wide white QV + quartz vein rubble and gouge FeOx and 0.3 m lost.
LS16-65	6.7	7	QV Zone	N	50	50	Yes	Zone of highly deformed truncated < 1 cm wide quartz stringers + x-cutting 8 mm at 6.9 m in sericite SCH; < 1% euhedral pyrite.
LS16-65	7	7.6	QV	N			Yes	Broken upper and lower contacts; White QV with limonitic fractures and staining the quartz; goethite fracture fill in QV and trace very rusty pyrite cube.
LS16-65	9.6	9.62	QV	N			?	QV in fault zone; 2 cm white mottled quartz stringer in faulted zone; open space lined with Q1 quartz crystal infill < 4 mm long, euhedral, FeOx pyrite pits.
LS16-65	10.1	10.12	QV	N		50	No	2 cm white with grey selvages quartz stringer; clots ad dendritic Mn on hair width fractures 90% to foliform quartz stringer contacts.
LS16-65	17.25	17.28	QV	N	45	45	Yes	3 cm wide fractured QV with 10 - 15 cm alteration envelope of sericite bands pyritic fractures and upper and lower contacts.
LS16-65	19.6	20	QV	N	55		Yes	Lower contact broken / faulted; milky white quartz vein with interval fractures coated in limonite.
LS16-65	38.5	38.7	QV	Y			Yes	Mottled white and grey fractured and locally brecciated QV with 8 x 5 mm lath of white quartz x-cutting foliaiton at upper contact; rusty fracutres in quartz. * 1 spec of VG at 38.7 m, < 1 mm on lower contact of selvage in FeOx with Mn coated fracture / contact with FW SCH-lam.
LS16-65	41.2	41.23	QV	N	45	45	?	3 cm x 2 cm lens of white quartz in rusty SCH-lam iwth 4 mm wide rounded quartz fragments along foliation fracture.
LS16-65	44.9	45.2	QV	N	80		Yes	Non planar lower contact; milky white fractured QV with thick limonite; 35 euhedral rusty pyrite along FW contact, no sulphides in vein observed.
LS16-65	46.85	46.92	QV	N				9x 3 cm wedge of white ?foliaform quartz stringer with patchy of serpentine and fine grained pyrite clots and fuchsite along upper contact of quartz wedge.
LS16-66	12.65	12.82	QV	N				Broken chips; largest piece 6 cm across; milky white weakly fractured with local limonite stain on fracture surfaces.
LS16-66	16.29	16.38	QV	N	55	55	No	White fractured quartz veinlet / sweat 5 cm wide with 2 sets of parallel fractures with weak limonite stain; pitted on upper contact an filled with boxwork limonite - leached 10% limonite fill - mostly along selvage.
LS16-66	17.16	17.24	QV	N	90		No	White fractured milky quartz; crackle with weak limonite stain; no sulphides looks foliaform. Rare vug at FW selvage.
LS16-66	45.52	45.72	QV	N	30	30	No	Off white crackle - fracture quartz (weak) with increased chlorite along margins of sweat and pyrite. WRI 5% also contains shiny, euhedral pyrite up to 2% locally. Off white calcite 'clots' (< 1 m also noted interstitally) very irregular contacts.
LS16-66	58.27	58.46	QV Zone	N	60	60	No	2 QV's: One near upper contact --> quartz foliaform lens 4 x 2 cm - wrapped in dark green chlorite / epidote ad inter-folae pyrite. Trace off white interstitial calcite. Other foliarom 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.
LS16-67	9.05	9.07	QV	N			?	2 cm wedge of ?foliform quartz stringer with pyritic selvages, pitted FeOx.
LS16-67	10.2	10.21	QV	N			No	Broken < 1 cm quartz stringer with rusty selvages.
LS16-67	11	11.02	QV	N		70	No	Rusty 2 cm quartz stringer along foliation with cubic 2 mm pyrite along selvages.
LS16-67	14	15.25	QV Zone	N			?	FLT zone with < 5% white quartz vein fragments, rusty with FeOx pits.
LS16-67	21.5	21.53	QV	N			?	3 cm2 patch of rusty quartz in SCH-tig.
LS16-67	23.3	23.32	QV	N	70	70	Yes	2 cm white ribbon QV with rusty selvages, < 1% 1 mm pyrite cubes in quartz.
LS16-67	23.6	23.63	QV	N			Yes	3 cm fractured pyritic quartz stringer discontinuous with large open space.
LS16-67	27.43	27.45	QV	N		80	Yes	< 2 cm QV with rusty selvages pitted and fractured.
LS16-67	28.1	28.9	QV Zone	N			No	Zone of increased quartz sweats, discontinuous wedge shaped < 4 cm wide pinching with rusty selvages.
LS16-67	33.6	33.64	QV	N		70	Yes	4 cm wide white quartz stringer with ex solution texture fractures perpendicular to selvage, ??? 3 cm yellow gouge along lower contact.
LS16-67	34.2	34.7	QV Zone	N	75		No	Zone of increased quartz sweats, fractured with Mn and sericite selvages.
LS16-67	45.62	45.7	QV	N			No	< 8 cm white QV with mica partings with chlorite / sericite + brassy cubic pyrite along these fractures in the quartz.
LS16-67	58.75	58.8	QV Zone	N			?	Zone of white fractured QV with large 1 cm open space cavities.
LS16-67	59.65	59.67	QV	N			No	< 2 cm highly fractured while discontinuous quartz sweat?; trace limonite along selvage.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-67	60.23	60.25	QV	N	70		No	White fractured recrystalized quartz stringer fractures are limonitic in quartz + mica inclusions.
LS16-67	60.9		QV	N			No	Lens of quartz, mottled white and grey quartz lens, trace pyrite in quartz.
LS16-67	61.1	61.13	QV	N		60	No	3 cm wide white coarse quartz crystal infill with mica inclusions.
LS16-67	69.92	70	QV	N	85		Yes	< 8 cm milky white quartz + 40% chalky amorphous calcite ?in Listwanite.
LS16-67	71.35	71.37	QV	N			Yes	< 2 cm white + mottled blue / white carbonate / quartz stringer with serpentine + concentration of fuchsite.
LS16-67	71.8	71.84	QV	N			No	4 x 5 cm lens of quartz with minor carbonate in LIST with black serpentine margins.
LS16-67	73.72	73.8	QV	N	85	70	Yes	< 8 cm zone of quartz + large amorphous pale green / blue carbonate patchy with serpentine + fuchsite in quartz margins.
LS16-67	74.1	76	QV Zone	N			No	Zone of 40% highly fractured lenses of white quartz +/- carbonate and common blue / black serpentine +/- fuchsite and common pyrite shiny euhedrons < 2 mm in fractures + concentrated along quartz selvages brecciated texture.
LS16-67	78.42	78.49	QV	N	75		No	7 cm wide white quartz stringer with 4 thin mica partings making strong look ribboned textured; serpentine + fuchsite in stringer margins.
LS16-67	79	79.15	QV Zone	N			No	Zone of two < 3 cm white quartz stringers wedge shaped with mica fractures, pyrite concentrated selvages.
LS16-67	81.9	82.05	QV Zone	N			No	9 x 3 cm lens of white quartz + ragged pale green carbonate patches and concentration of euhedral pyrite selvages.
LS16-67	82.6	82.8	QV Zone	N			No	zone of discontinuous white quartz + ragged carbonate serpentine and fuchsite + pyrite.
LS16-67	83.75	83.78	QV	N	70	75	No	White and pale green quartz / carbonate < 3 cm stringer with serpentine ad fuchsite; pyritic selvages.
LS16-67	85.4	85.6	QV Zone	N				Zone of rootless / fractured < 3 cm wide deformed carbonate / quartz lenses, fuchsite ad pyrite.
LS16-67	86	86.6	QV Zone	N				Zone of fractured discontinuous quartz and carbonate +/- fuchsite/ serpentine sub parallel but wavy to core axis. ~ end of listwanite.
LS16-67	90.15	90.18	QV	N			No	Deformed quartz lens along foliation with blue black serpentine and epidote in quartz.
LS16-67	90.3		QV	N			No	Deformed, same as 90.15 - 90.18 m above. "Deformed quartz lens along foliation with blue black serpentine and epidote in quartz."
LS16-67	90.9	90.94	QV	N	70	75	No	4 cm white quartz stringer - mottled with pyritic selvages.
LS16-67	92.9	92.92	QV	N		85	No	2 cm white quartz stringer with carbonate; chlorite + pyrite selvages.
LS16-67	96.03	96.05	QV	N		70	No	< 2 cm rusty quartz stringer along foliation with sericite margins; pitted quartz.
LS16-68	5.59	5.9	QV	N			?	Broken foliaform quartz (?) with greasy wall rock - coarse grained white mica. Trace pyrite --> limonite in tiny (< 1mm) pits in white milky quartz.
LS16-68	10.51	10.56	QV	N	80	80	?	4.5 cm wide, dismembered quartz vein - difficult to say if x-cutting due to structural complexity. Trace pyrite on selvages.
LS16-68	20.17	20.58	QV	N			?	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.
LS16-68	33.53	35.05	QV	Y			?	White and local rust along fracture. Trace very fine grained, euhedral pyrite cubes in white quartz along limonite staining fractures. Several (2-5) specs of galena. VG spotted by JVR.
LS16-68	57.8	57.95	QV	N		55	?	Upper contact is broken; ~15 - 20 cm wide; white (milky); 2 sets of parallel fractures perpendicular to each other. 1 spec of VG in massive quartz - between fracture sets; measured to be 0.19 mm across. Fractures parallel to selvage contain very fine grained pyrite. Small vug with bladed quartz.
LS16-68	63.98	63.956	QV	N	40	40	Yes	QV - small x-cutting veinlet 4-6 mm wide; trace euhedral fine grained pyrite along selvage and dark chlorite.
LS16-68	71.52	72.33	QV	N	40		Yes	White, fractured with limonite and very fine grained sulphide --> pyrite + galena (?); very fine occasional rare smal 1-3 mm limonite filled vug.
LS16-68	81.34	81.4	QV	N			?	White; fractured + limonite vugs; with trace euhedral pyrite along selvage + trace galena.
LS16-68	96.95	97.15	QV	N	70		No	15 cm wide, white, massive milky quartz - bull quartz; no sulphide in quartz; trace pyrite as fine grained, euhedral, cubes in envelope very weak fracture with no fracture fill noted.
LS16-69	8.94	9.09	QV	N	90	90	?	15 cm wide QV; broken upper contact and lower contact. Very black coatings on surface and internal fractures - MnO2; lesser rust (lim) and weak yellowish stain (jarosite?). Fractures are planar and parallel to each other. Glassy grey and white; possibly foliaform; no sulphides noted.
LS16-69	11.03	11.16	QV	N			?	White quartz - broken; largest piece of 5 cm; fractured have weak limonite stain; no visible sulphides.
LS16-69	11.95	11.98	QV	N	80	80	No	QV - brittle deformation, fractured, limonite stain on fracture and in pits; white, 3 cm wide; no sulphides noted.
LS16-69	12.24	12.29	QV	N	40	40	?	Milky rust brown - grey contorted quartz veinlet; 4.5 cm wide sharp contacts. Maybe x-cutting - difficult to say.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-69	16.72	16.92	QV	N	65		Yes	16 m wide massive - fractured white QV with 1 x 2 mm spec of galena and trace euhedral pyrite along fracture within the quartz.
LS16-69	50.85	51.61	QV	N				QV / FLT - Broken oxidized section of 65% white broken quartz - largest piece 6 cm across; 20% orange - rust gouge; and 15% crush. Quartz has strong limonite stain on surface + along fracture. No sulphides noted.
LS16-69	57.78	58.1	QV Zone	N	70	90	No	Set of two veins - 57.78 - 57.85 m - White - grey, styolitic-like fracture with white calcite - chlorite - pyrite. Including pyrite along veinlet margins (1%); trace pyrite (very fine grained, euhedral) in fracture in QV. 57.94 - 58.07 m - White, weak fracture; chlorite - sericite pyrite in some local fractures; weak alteration, white calcite as late phase infill.
LS16-69	70.72	70.85	QV	N	80	80	No	12 cm wide, glassy white QV; trace disseminated pyrite with limonite rust along fracture.
LS16-69	76.99	77.03	QV	N	40	40	No	4 cm wide foliaform quartz sweat - white and trace calcite specs - no sulphides noted.
LS16-69	83.48	83.53	QV	N	40	60	No	4 cm wide, white milky, white calcite (10%) along selvage +/- chlorite (dark green - grey) +/- pyrite. 2 vugs - largest 1 cm x 3 mm - clean.
LS16-69	87.3	87.38	QV	N	65	65	No	White - cream colored, 8 cm wide, quartz with parallel sides. WRI along the center. 15 - 20% partchy white calcite + chlorite (grey - green) and pyrite along center as well.
LS16-69	88.92	88.98	QV	N	65	60	Yes	Irregular upper contact ranging from 65 - 90 degrees tca. White with grey - washed "blemish" with fine grained to medium grained very shiny euhedral pyrite. Also very coarse grained (1 cm) shiny pyrite within the milky quartz which are associated with lesser galena - either cored or along the edge of pyrite.
LS16-69	93.86	94.81	QV Zone	N	70	60		Broken upper and lower contacts; 93.88 - 94.08 m - white with weak motrtled blemishes of rusty and grey. High density pitting with trace, fine grained, euhedral shiny pyrite associated. Also noted pyrite of some charader?? on FW selvage. 94.35 - 94.65 m - Milky white with some (5-10%) white spec / irregular patches of calcite. Fine 1 mm diameter pits in grey blemish patch - dark black fracture fill - pyrolusite? 20% scattered fine WRI - wispy and associated with fine grained, shiny pyrite.
LS16-69	99.77	101.55	QV	N				QV/ FLT - Mixed interval of broken milky quartz foliaform (?) sweats; oxidized and hydrothermally altered (paled) planar foliated chis 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 (?).
LS16-69	100.62	100.72	QV	N	70	70	No	Grey with some off white yellowish blemishes; trace dark rust specs from pyrite --> limonite along FW selvage.
LS16-70	9.14	9.3	QV	N		?		White - milky; massive, weakly fractured - no sulphides noted. Contacts broken. Weak limonite stain on fractures.
LS16-70	12.62	12.8	QV	N	85	70	?	White and lightly to moderately stained with limonite rust; incised parallel fracture set perpendicular to vein margins. WRI + limonite / gouge down center of vein (1-3 mm thick, parallel to selvages). Trace very fine grained, euhedral pyrite --> limonite cubes along one fracture that is parallel to selvage not perpendicular.
LS16-70	15.32	15.46	QV	N	55	85	?	Milky white, massive with weak fracture fill of associated limonite - iron carbonate (dolomite?) and very fine grained, euhedral pyrite --> limonite cubes along fracture in trace amounts. A large lens (~ 8 x 2 cm) of black (dark green) soft waxy mineral - serpentine also in the middle of the quartz vein. There are other smaller patches of the black mineral. The black mineral is soft/ waxy and contained 2 - 3% shiny, fine grained, euhedral, cubic pyrite - the black mineral is probably a very dark serpentine.
LS16-70	16.72	16.86	QV	N	85	60	Yes	LC varying from 60 - 90 degrees tca. Yellowish - rust off white, mottled and fractured --> one very "incised" set ~ perpendicular to selvage with intense limonite stain and medium grained oxidized pyrite + trace galena. Partly sheared on lower contact selvage. Pyrite also in massive quartz and along selvage (trace).
LS16-70	24.48	24.69	QV	N	65		?	White massive and fractured quartz with local limonite stain in fracture. Possibly 2 veins present - separated by rusty / oxidized WRI 5% WRI (oxidized); Irregular patches up to 1.5 x 1 cm in size with iron carbonate (off white cream) - sericite - (dendritic) pyrolusite +/- cubic euhedral pyrite (slightly oxidized) assemblage. Many fine fracture of pyrolusite (black). Cross cutting ? - suspect.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-70	28.83	29.07	QV	N				Complex vein - white calcite + pyrite + serpentine + rhodocrosite. Unique vein comprising: 1) 75% cream - white calcite with 1-3 cm irregular vugs lined iwth 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 rhocochrosite 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.
LS16-70	32.35	32.37	QV	N	65	65	No	2.5 cm thick; parallel sides; white massive, no sulphides noted.
LS16-70	32.55	32.59	QV	N	50	50	No	4 cm thick max - boudin texture and discontinuous lenses; black chlorite? serpentine? in central fracture + pyrite. Trace disseminated pyrite also along selvage.
LS16-70	34.54	35.71	QV	N	70	90	No	12 cm thick, grey - white, very fractured (irregular) with limonite - pyrolusite (MnO_2) fracture fill and in small (1 - 5 mm) irregular vugs. Trace pyrite grains associated with vug - fracture. 30% irregular WRI.
LS16-70	49.54	50	QV	N		?		Snow white, massive - milky, clean with a very weak jarosite - limonite surface stain on fracture. No pyrite in vein. Appears single phase.
LS16-70	68.74	68.85	QV	N	50	55	No	White massive quartz; fractured with interstitial + fracture fill of cream - colored calcite - pyrite; pyrite is euhedral, fine grained, slightly oxidized. Planar margins; 7 cm thick.
LS16-70	69.67	69.84	QV	N	20	50	?	White rusty dark grey / black vein; moderately fractured with limonite - jarosite +/- fine grained, euhedral pyrite --> limonite fracture fill. Margins detached from wall rock.
LS16-70	71.75	72.08	QV Zone	N	55	55	?	Includes 2 QV (foliaform?); 1) 3 cm thick with a diffuse (x-cutting upper contact?) which has created a silica flooded hanging wall envelope; trace pyrite (fine grained - medium grained) euhedral in quartz - faded hanging wall envelope with trace pyrite (fine grained).
LS16-70	71.75	72.08	QV	N	0	0	Yes	Upper and lower contacts range from 0 - 80 degrees tca; White - calcite --> cross cuts the 2 QV's above in this sub-interval; 1% disseminated pyrite (fine grained) along its selvage + broken carbon rich sooty mineral?
LS16-70	71.89	71.9	QV	N	45	45	No	White 1 cm thick, trace disseminated pyrite + dark chlorite along selvage.
LS16-70	76.33	76.48	QV	N	75	50	No	White, massive, milky quartz with large 1-2 cm cavities locally filled with white calcite - pink rhodochrosite and euhedral, fine to medium grained pyrite. Within the carbonate the pyrite is up to 7%. Pyrite not seen in white quartz.
LS16-70	79.06	79.25	QV Zone	N	85	85	No	Quartz veinlets with serpentine - 2 foliaform quartz sweats. (79.06 m) White with 5-10% light green serpentine blob on foot wall margin; no pyrite in veinlet but trace amounts of fine grained, euhedral, shiny pyrite along selvages 2 cm thick. (79.15 m) 7 cm thick; milky white with 5-10% light green serpentine 1-2 cm blobs on foot wall and hanging wall selvages. Pyrite as above.
LS16-70	86.6	86.65	QV	N	50	50	No	Contains a white 5 cm foliaform quartz veinlet.
LS16-70	94.67	94.87	QV	N		75	?	White, massive, weakly fractured; 15 WRI associated with anhedral patches (very small 1-3 mm) pyrite + other sulphide --> semi metallic ,black.
LS16-70	95.22	95.65	QV	N	70	50	?	White, massive milky quartz with bright white calcite (7%) and black serpentine (10%) as irregular forms. 1 distinct pyrite cube 3 mm sq? note + anhedral and euhedral pyrite associated with sericite / talc SCH WRI (10%).
LS16-70	99.2	99.56	QV	N		?		Irregular upper and lower contacts; 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 fractures.
LS16-71	7.62	8.03	QV	N		?		White; broken chips and core with weak fracture fill; namely limonite + rare rusty < 1 mm (very fine grained) euhedral pyrite also along fracture.
LS16-71	11.02	11.4	QV	N		?		Milky white with fracture - incised; noted several fine grained to medium grained chocolate / oxidized euhedral pyrite associated with patches of beige WRI (sericite) + fractures.
LS16-71	39.5	40	QV Zone	N	50	50	?	39.50 m - 8 cm thick white milky quartz; virtually no fractures; very clean; some weak jarosite - limonite stain on fracture surface. 39.78 m - 13 cm thick; similar to above, milky white - virtually no fracture (few diffuse); noted euhedral, fine grained pyrite + increase in chlorite on selvage.
LS16-71	45.28	45.5	QV Zone	N	70	70	Yes	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 selvage with pyrite (broken down - dirty pyrite --> limonite) + galena. 45.42 m - 3.5 cm thick dirty (limonite stained) weakly pitted; limonite stained along fractures. Sub-hedral pyrite noted along selvage.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-71	48.62	48.63	QV	N	80	80	Yes	0.5 cm thick; pyrite along selvage (dark chlorite); quartz - calcite stringer.
LS16-71	50.9	51	QV	Y		60	Yes	Fault / QV - oxidized broken schist (chlorite - quartz) core with 10 cm + quartz vein at lower contact. At 50.9 m - 10 cm + thick milky (yellowish) white quartz + off creamy calcite / dolomite (7%) in tension gashes perpendicular to margins; galena in one of these perpendicular fracture sets; many slightly altered pyrite cubes (fine grained, medium to coarse grained) in quartz. 1 spec suspect VG
LS16-71	53.46	53.94	QV	N		10	?	5 cm+ thick grey - white very fractured / sheared quartz - noted medium grained, euhedral pyrite cubes along fracture and in quartz.
LS16-71	53.77	53.84	QV	N		40	Yes	7 cm thick; light grey - white quartz with large cubic, euhedral pyrite crystal 3 x 8 mm within quartz.
LS16-71	54.55	54.56	QV	N	55	55	Yes	< 1 cm wide milky white veinlet with associated euhedral pyrite along selvage. Associated with cross sheared (gouge).
LS16-72	19.63	20.25	QV	N	70		Yes	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. Occassional 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.
LS16-72	22.5	22.7	QV	N	40	40	No	White, massive with weak limonite stain along fracture - no sulphide, 4 cm thick.
LS16-72	23.25	25	QV Zone	N			Yes	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.
LS16-72	30.76	31.18	QV	N	40		?	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.
LS16-72	33.53	33.7	QV	N	15		?	Milky white to light greyish quartz with 40% WRI - one beige - yellowish patch in a fractured controlled portion of quartz contains trace galena + pyrite associated with yellowish calcite.
LS16-72	36.38	36.87	QV	N	25	45	?	Milky white, chaotic fractures - numerous fracture fill minerals include: white sericite; rust limonite; yellowish calcite; Dark MnO2; euhedral pyrite --> limonite (fine grained associated with yellowish calcite.
LS16-72	37.68	37.92	QV Zone	N				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.
LS16-72	39.7	39.98	QV	N			?	Very milky white with weak fracture; rare small (1-2 mm) vugs with light rust; 2 blebs of galena in massive white quartz.
LS16-72	40.14	40.19	QV	N			Yes	Upper contact 0 - 45 degrees tca. 5 cm + thick white - light rust; chaotically fractured with limonite - rust fracture fill and euhedral - rusty pitting along selvage. No sulphides noted.
LS16-72	45.88	45.92	QV	N	70	70	Yes	4 cm thick white quartz vein with minor off white (yellowish) calcite + associated very fine grained, euhedral, cubic pyrite.
LS16-72	48.46	48.49	QV	N	70	70	Yes	3 cm thick white quartz vein and rare euhedral pyrite (slightly rusty pyrite); cross cutting yellowish late phase calcite in small (0.5 cm) wide branching x-cutting subsidiary quartz stringer with medium grained, euhedral pyrite --> limonite associated with it.
LS16-73	10.8	10.95	QV	N			?	Upper / lower contact broken / steep? Snow white massive quartz with weak fractures. Fracture surface coated in rust - limonite. No sulphide noted. Rare rust specs; possible pyrite --> limonite.
LS16-73	57.9	57.905	QV	N	35	35	Yes	5 mm wide planar glassy white stringer - no sulphides along selvage or within stringer - quartz.
LS16-73	58.27	58.28	QV	N	50	50	Yes	11 mm wide planar milky white quartz veinlet with occasional (1%) pits (1-2 mm) with weak rust.
LS16-73	58.47	58.48	QV	N	50	50	Yes	10 mm wide planar milky white quartz vein + no fractures or sulphides noted. Cross cuts and 'blends' with a low angle silica flood quartz sweat.
LS16-73	58.59	58.605	QV	N	35	35	Yes	15 mm wide planar milky white quartz vein; forms the lower contact of this interval. 1 sub euhedral spec of pyrite within the white massive quartz. Moderate limonite / rust along surface with fault at foot wall contact. 1 vug / pit/ os 5 x 3 mm with fine crystalline drusy quartz - clear and late phase.
LS16-73	58.6	58.8	QV	N			?	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 oxidization.

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LS16-73	66.71	66.718	QV	N	70	70		8 mm wide grey with perpendicular fracture fill and interstitial fill (10%) of cream colored calcite. Trace very fine grained pyrite in veinlet and on foot wall selvage.
LS16-73	66.86		QV	N	90	90	No	Grey - white; planar parallel side; 10% white - cream colored; 10% irregular fracture fill and patchy WRI; no sulphide.
LS16-73	67.96		QV	N	35	25	No	White - light grey with rust (light) a fractured quartz with 7% irregular cream colored calcite associated with minute trace very fine grained pyrite specs. Fracture fill of limonite.
LS16-73	74.25	74.43	QV	N	45	20	No	Branching white foliaform quartz sweats with 20% parallel WRI and several blebs of galena. Galena along parallel fractures to sweat margins in the milky quartz. Galena is associated with fine grained, euhedral, cubic pyrite. 2% cream colored calcite also associated with WRI.
LS16-73	75.83	75.86	QV	N	35	35	No	Contacts - 35 - 45 degrees tca. 3 cm thick milky white quartz - weakly fractured with 1% cream - white calcite patches along hanging wall selvage ad internal fractures. Margins are irregular very fine grained, anhedral to euhedral, trace pyrite, isolated and as 'trains' along margins.
LS16-73	75.92	75.925	QV	N	80	80	No	0.5 cm x 5 cm off white - light grey quartz lens. Dense fine grained pyrite along selvage margins of sweat.
LS16-73	75.98	75.983	QV	N	30	30	Yes	3 m thick creamy - white calcite - quartz stringer with 1 spec galena; also trace pyrite. Calcite makes up 70% of stringer.
LS16-73	77.95	77.97	QV	N	70	70	No	2 cm thick milky white quartz veinlet - foliaform, 3% creamy - yellowish calcite associated with very fine grained euhedral pyrite within patches along hanging wall side.
LS16-73	88.83	89.26	QV	N	35	60	Yes	White fractured quartz with 20% very altered sericite - WRI with noted fine grained, euhedral, cubic pyrite associated with these patches. 4 x 3 mm patch of blue - grey galena in white quartz. Some fracture with weak limonite stain.
LS16-73	96.17	96.18	QV	N	50	50	Yes	3/4 cm thick, milky quartz with trace pyrite - euhedral, medium grained, shiny.
LS16-73	96.49	96.69	QV	N	25	25	Yes	1.5 cm thick, milky quartz with trace fine grained, euhedral pyrite and trace galena in quartz. Grains are in the quartz veinlet not along selvage.
LS16-74	4.9	4.98	QV	N	60		?	8 cm wide broken, crackle fracture, milky white quartz. 2 mm wide irregular crackle fractures with WRI - sericite + trace euhedral pyrite --> limonite (cubic - fine grained) noted.
LS16-74	32.71	33.28	QV Zone	N	5	80	No	Crackle - mottled grey - white quartz; fracture fill of chlorite - weak limonite; rare pyrite at margins of quartz lens. 10% white calcite within grey quartz.
LS16-74	45.16	45.57	QV	N	30		Yes	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.
LS16-74	46.11	46.31	QV	N	80	80	No	Quartz vein (foliaform) - white bull quartz - no sulphides; fractured with no fracture fill material; foliaform quartz.
LS16-74	70.26	70.58	QV	N	25	25	Yes	White milky low angle quartz veinlet, 1.5 - 2 cm thick; irregular - shifted boundary - occupies gradational contact between SCH-f and SCH-i.
LS16-75	7.6	7.61	QV	N	70	70	No	Disc. sweat. Massive white quartz to very fine grained, sugary. ~2% chlorite + chlorite - sch inclusions. No notable selvage. 1 cm width. 2% leached pits, trace very fine grained oxidized pyrite, subhedral. Trace suspect galena --> dark blue - grey metallic blebs.
LS16-75	15.3	15.31	QV	N	10		Yes	Quartz + carbonate +/- trace galena. White with very fine weak twining. Diffuse contacts, tension fractures. Carbonate is patchy. Vugs with limonite + pyrite. Vugs follow oricatatly??? of x-cutting stringers of chlorite - epidote - carbonate +/- hematite +/- pyrite. Where veinlets + stringers cut chlorite + epidote blowouts in quartz + carbonate veinlets.
LS16-75	15.37	15.38	QV	N	25		Yes	Quartz + carbonate
LS16-75	37.3	37.31	QV	N	55		No	Quartz + carbonate - trace pyrite - trace galena. Weakly boudined + along foliation. Trace chlorite inclusions.
LS16-76	32	32.03	QV	N	20		No	Opaque quartz with minor grey quartz bands perpendicular to vein walls. Minor carbonate. MnOx as dendritic blebs along fractured surface. Brecciated by chlorite + epidote vein breccia. Crenulated contacts (foliaform) and at lower contact band of grey quartz, and more granular texture. Minor host SCH inclusions. Weak FeOx in fractures. + MnOx in fractures. Trace fractured, dark pyrite.
LS16-76	43.6	43.62	QV	N	50		No	Foliaform quartz vein. SCH inclusions. Sharp contacts but crenulated with host.
LS16-76	51.02	51.03	QV	N	50		No	Boudined veinlet ~ 1 cm width. Inclusions of chlorite + trace biotite. Trace spec chalcopyrite rimmed in galena. Veinlet is in between two felsic bands.
LS16-77	1.8	1.93	QV	N		40	?	Vein is rubble. Cannot tell if x-cutting relation. Opaque, white quartz. Weak FeOx staining. Massive with minor leached vugs. Cut by leached stringers +/- FeOx +/- hematite +/- sericite, 35 degrees tca +/- epidote. Trace oxidized pyrite.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
LS16-77	4.39	4.98	QV Zone	N	60	45	No	Set of veins - 4.39 - 4.47 m; UC: 60, LC: 45 - White to grey. Opaque quartz. Fractured with limonite along fractures +/- trace MnOx chlorite - sericite, trace epidote. Trace to fine to medium grained cubic pyrite, strongly oxidized. ~2% leached pits. 4.62 - 4.90 m quartz is more fractured + brecciated in foliation. 4.44 - 4.53 m; UC 70, LC 70; 4.62 - 4.83: UC: 30, LC: 50. 4.83 m: UC: 50 - rubble.
LS16-77	5.1	5.74	QV	N	33	5	?	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.
LS16-77	6.77	6.8	QV	N		50	No	Opaque, white spotted, pale cream - grey quartz. Becoming boudined within foliation at upper contact in fold. ~3% leached pyrite, oxidized. Trace hematite. Minor chlorite + epidote incl. + sericte. Patchy of grey quartz at bottom of ellipse. (pic in log).
LS16-77	10.08	10.15	QV	N	70	70	No	Massive white quartz. Trace fine grained cubic, oxidized pyrite. Rare grey quartz - blebs at lower contact.
LS16-77	10.9	11.08	QV	N	30	40	Yes	Pegmatic white to grey quartz. ~3% vugs with coarse grained crystals. Trace sub hedral oxidized pyrite, fine grained along vein edges Weakly visible crystal growht perpendicular to vein walls. Upper contact contains minor host rock inclusions.
LS16-77	12.2	12.22	QV	N	60		No	Pale grey to white along fractures, massive to pegmatic quartz. Brecciated to boudined. Moderate host rock inclusions. Trace blebby pyrite + trace galena - trace chalcopyrite. Foliaform.
LS16-77	13.95	14	QV	N	40	30	No	Foliation, brecciated to boudined white quartz veinlet. Trace galena specs + trace pyrite bleb. Deformed foliaiton + no regular vein orientation. 40 + 30 degrees tca closest estimate.
EC16-78	2.9	3.05	QV	N			?	White massive with WRI grey - brown blemishes; weakly fractured, weak MnO2 and limonite as fracture fill - local. No sulphides noted.
EC16-78	49.1	49.12	QV	N	40	40	No	2 cm wide glassy grey - white with rust and 5% pyrite --> limonite as sub-euhedral forms? (fine grained).
EC16-78	49.17	49.19	QV	N	40	40	No	2.5 cm wide; cra ff of MnO2 (pyrolusite), limonite and pyrite --> limonite, subhedral, "chocolate" pyrite.
EC16-79	9.08	9.25	QV	N				QV - foliaform? large quartz sweat - broken pieces.
EC16-79	10.35	10.54	QV	N				Foliaform, 2 relatively large foliaform quartz sweats/ lens; side by side with 3-4 mm of SCH-i in between.
EC16-79	16.04	16.25	QV	N				Foliaform, relatively large mottled and crackle fractured quartz lens.
EC16-79	23.02	23.38	QV	N				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	27.31	27.7	QV	N				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	30.69	30.9	QV	N				Crackle fractured - foliaform. Relatively large foliaform quartz with a broken LC.
EC16-80	4.3	4.33	QV	N		35	No	Grey to white massive quartz veins. Fe oxidization in fractures. Trace oxidized pyrite. Trace chlorite inclusion. 4 veins ~1-2 cm wide from 4.30 - 4.45m.
EC16-80	4.85	4.87	QV	N		18	No	Grey to white, 3 veins from 4.85 - 4.90 m. Some yellow staining. Jarosite?
EC16-80	4.95	4.97	QV	N	25		No	Grey to white, 2 veins from 4.95 - 5.00 m.
EC16-80	8.9	8.95	QV	N	70	70	Yes	Massive, white quartz vein with ~1% leached, FeOx pits and laths. cut by leached limonite and clay stringers. Sub parallel tca.
EC16-80	16.2	16.21	QV	N	40	40	No	Massive white quartz with 2% leached pits with limonite cut by vein at 16.20 to 16.25 m. FeOx Staining patchy.
EC16-80	16.2	16.25	QV	N	50	50	Yes	Massive white quartz with leached pits with limonite at selvage + center line. ~10%. Patchy FeOx staining trace relict medium to coarse grained pyrite, cubic. Sericite to muscovite halo weak.
EC16-80	24.5	35	QV Zone	N	60	88	Yes	Multiple QV's. X-cut foliation + range from 1 cm - 8 cm width. Veins range from 60 - 88 degrees tca with 60 - 70 degrees tca dominant. ~ 2 / m with half great than or equal to 5 cm and half ~ 1 - 2 cm. Sharp contacts. Straight. *There is also a set of 1 - 3 mm similar quartz veinlets. Some of these are discontinuous. Veinlet contacts are slightly irregular. Quartz veins contain center line vugs with coarse grained quartz crystals, minor patchy FeOx staining; trace - 1% oxidized pyrite + limonite in vugs and occasional as selvage, and are massive, white quartz to minor greyish quartz usually close to the vein wall. These have a very indistinct halo of finer sericite < 2 mm.
EC16-80	43.8	47	QV	N	5	5	Yes	Very low angle QV. Massive dusky grey to white. Exsolution texture of grey quartz in white. Fractured with limonite +/- MnOx in fractures +/- chlorite. Relict oxidized pyrite fine to coarse grained - trace.

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EC16-80	48.53	48.7	QV	N	50	20	Yes	Discontinuous, deformed, white massive quartz. Weak exsolution? faint grey - white banding. Fractured + cut by leached limonite + Mn stringers. Trace hematite.
EC16-80	56.39	62	QV	N	55	65	Yes	Primary ~ 1/m white, massive quartz veins. Range from 2 cm to 8 cm. Trace to moderate leaching along center line of veins. Limonite in vugs. Euhedral quartz in vugs. Some leaching + strong limonite along vein wall. Cut by leached limonite strigers. Sharp and straight contacts. Secondary - 3 mm - 1 cm white - grey quartz veinlets, discontinuous + cut by massive quartz veins + occasional offset. Sinistral. Slightly irregular contacts. Also trace to weak limonite in leached vugs / pits.
EC16-80	66.4	77	QV	N	60	80	Yes	Similar quartz veins to 56.39 - 62.0 m. White, massive, limonite and leached center, high angle, sharp contacts. hematite > 5 cm, range 1 - 12 cm. 60 - 80 degrees tca dominant. Two large veins. 25 - 30 degrees tca. Possibly different generation? Similar apearance, but near / within faults + contacts are wobbly + minor some host schist inclusions. Occasional coarse grained cube, limonite replacing pyrite. 71.95 - 72.10 m, 74.64 - 74.80 m. ~ 2 / m.
EC16-80	78.8	79.1	QV	N	25	15	Yes	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. Secondary quartz veins as those in 56.39 - 62.0 ~ < 1/m. Sinistral offsets. Some sub parallel tca.
EC16-80	81.5	82.2	QV	N	70	85	Yes	0.5 - 1 cm quartz veins as primary in 56.39 - 62.00 m. But increase in Mn. 79.10 m ~3/m in vugs + as selvage.
EC16-80	86.2	90.3	QV	N	30	50	No	Similar to 78.8 - 79.10 m. Wobbly sharp contacts. Slight increase in sericite at contacts. ~ 15 / m.
EC16-80	90.9	91.03	QV	N	30	30	No	Similar to 78.80 - 79.10 m. Gouge at contacts. Fractured.
EC16-80	100.6	101.5	QV	N	70	85	Yes	Brecciated in fault, white, massive quartz. 2 - 5 cm width same as primary quartz vein at 56.39 - 62.00 m.
EC16-80	106	106.06	QV	N	30	70	No	Weakly fractured + brecciated. White to grey, massive to pegmatic. ~2% leached pits with chlorite + limonite. Minor host schist included.
EC16-80	106.85	108.8	QV	N	35	40	No	Multiple QV's similar to 106.00 - 106.06 m. Increase in leached vugs with FeOx. ~2 / m.
DM16-01	3.65	3.86	QV	N		60	?	Dark grey fractured quartz vein, pitted (weathered carbonate?) + cut by limonite + Fe carbonate stockworks. Irregular wall rock fragments --> bleached.
DM16-01	17	17.45	QV	N		30	Yes	Grey blocky massive QV, galena ~ 0.5% 1 m blebs, pyrite 0.5% fracture fill in discontinuous oxidized stockworks. Cut by dolomite + Fe carbonate stockwork associated with galena.
DM16-01	26.8	26.9	QV	N			?	Light grey blocky quartz vein possibly foliform, 10% wall rock inclusions recrystallized chlorite. Minor carbonate +/- pyrolusite fractures.
DM16-01	34.96	35.15	QV	N	45		Yes	Light grey + orange quartz vein, galena 1% fine grained trains within quartz, cut by stockwork of oxidized quartz uphole. Downhole contact gougy. Galena along wavy quartz fractures.
DM16-01	35.3	35.8	QV	N		72	Yes	Light grey to white quartz vein, massive + brecciated by stockwork of fine pale tan quartz. Limonite fractures at low angle tca. Oxidized downhole. Galena 0.5% as 2 - 4 mm clots associated with brecciated quartz stockwork.
DM16-01	38.75		QV	N	48	46	Yes	Orange carbonate - quartz vein, Fe carbonate margins with brecciated quartz core. Pitted and oxidized.
DM16-01	39.95		Other	N	22	18	Yes	Orange Fe carbonate + pyrolusite vein, wavy contacts, narrowing at uphole contact, massive rough looking.
DM16-01	40.18	40.38	QV	N	55	80	Yes	Light grey quartz stockwork cutting carbonate + oxidized + brecciated schist. Quartz veins with Fe carbonate selvages + cut by stringers 3% oxidized, euhedral, fine grained pyrite in selvages + quartz.
DM16-01	40.74	40.87	QV	N	50	52	Yes	Grey + orange quartz vein, massive, cut by Fe carbonate stockwork. Quartz vein splays off in margins to stringers. Strong oxidization and chlorite halos. 3% euhedral, oxidized pyrite in quartz, along carbonate stockwork + in halo.
DM16-01	41.45	43.65	QV Zone	N	25	70	Yes	25 to 70 degrees tca contacts; 3 / m irregular carbonate - quartz stringers + veinlets, oxidized Fe carbonate margins, oxidized + carbonate halos. Pyrolusite locally.
DM16-01	47.3		QV	N			Yes	Light orange quartz + carbonate vein breccia in rubbly core. 3% pyrolusite within carbonate with wall rock fragments - part of breccia in interval.
DM16-01	50.49		QV	N	80	80	Yes	Grey quartz veinlet fractured by Fe carbonate stringers. With oxidized + carbonate halo pronounced uphole.
DM16-01	51.16	51.32	QV	N	50	50	Yes	White carbonate veinlet / stockwork irregular contacts branching, patches of distinctive green mica within halo.
DM16-01	53.46		QV	N	30	25	?	Wavy quartz + carbonate veinlet in brecciated interval, pinch + swell, weakly pyritic selvages.
DM16-01	70.3		QV	N	75	70	?	Dark grey quartz veinlet, fractured and gougy. Possibly foliform. Trace fresh pyrite.
DM16-01	78.45	78.9	QV Zone	N	50	80	?	Contacts 50 - 80 degrees tca. 3 light grey quartz veinlets, boudinaged in interval with FeOx + clay, possible foliform sweats.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
DM16-01	91.5		QV	N	75	80	No	Pale pink dolomite + quartz vein / sweat, blocky with euhedral crystals, weakly hematite + magnetite selvages.
DM16-02	26.45	26.453	QV	N		10	Yes	Rusty orange - white 3 mm wide calcite (white) with rust - ankerite on selvages. 2% euhedral pyrite cluster train, 3 mm long in core of vein.
DM16-02	33.82	34.02	QV	N	45	45	No	Folaform milky white quartz + bright white dolomite; 7 cm wide. Dolomite is 5% in one patch; 1 spec of sti.
DM16-02	51.44	51.6	QV	N	70	50	Yes	Snow white very coarse crystalline calcite with 5 groupings (1 x 1/2 cm) of bladed - acicular stibnite growing from the hanging wall selvage inward. ~1% of veinlet. Veinlet is 6 cm wide.
DM16-02	60.65		QV	N		30	No	Off (redish??) grey quartz sweat 4 cm wide, with fracture fill of carbonate - very fine, euhedral pyrite cubes up to 3 mm across in foliaform sweat and envelope. Margins of sweat are irregular and sub-rounded by very dark fine grain mineral.
DM16-03	8	8.18	QV	N	55	55	Yes	Milky white quartz - can't see the rest of description - bad scan.
DM16-03	8.9	9.15	QV	N			?	core all broken; largest piece is 9 cm long; Milky white quartz. Very weak limonite +/- dedritic 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.
DM16-03	9.95	10.12	QV	N			?	Core all broken; highest piece is 6 cm long. Milky white quartz - weak fractures with weak limonite and dark dendritic and patchy pyrolusite. No sulphides noted.
DM16-03	10.22	11.75	QV	N			?	Snow white milky quartz - weakly fractured; very weak limonite stain on selected irregular fractures. Noted 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 and possibly (?) other very fine grained dark sulphides.
DM16-03	11.92	12.32	QV	N				Snow milky white massive quartz; weakly fractured with very fine grained, euhedral pyrite + limonite / pyrolusite; 1 spec galena noted. Upper contact and lower contact not intact.
DM16-03	17.8	17.81	QV Zone	N		70	Yes	2 crossed conjugate grey quartz stringers, both 1 cm wide; crackled with limonite - ankerite fillings. Extreme ankerite envelope + coarse euhedral pyrite --> limonite - 2-5% within a 1 cm wide bracket from stringers. One stringer is vuggy on its hanging wall side. The pyrite, for the most part has altered to limonite.
DM16-03	18.4	18.402	QV	N		25	Yes	2 mm wide grey calcite stringer in fracture fill with vugs and limonite +/- ankerite. Host is extremely altered (ankerite) chlorite SCH.
DM16-03	19.67	19.7	QV	N		40	No	3 cm wide grey quartz foliaform sweat; no pyrite association.
DM16-03	20.62	20.86	QV	N	40	35	No	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 + foliation. Dolomite is associated with trace fine grained, euhedral pyrite +/- limonite + ankerite.
DM16-03	21.5	21.505	QV	N		70	Yes	1/2 cm wide grey fracture - quartz with vugs + limonite + 2% euhedral pyrite pseudomorphed to limonite.
DM16-03	22.48	22.7	QV	N		90	Yes	Milky massive white with light rust stain quartz; weak to moderate limonite stained fractures; quartz is weakly fractured. numerous 2 - 3 mm sub-angular vugs along the foot wall or lower contact. 10 sub-euhedral isolated galena graines 1 - 6 mm where observed in the massive quartz.
DM16-03	23.06	24.66	QV	N	50	80	Yes	3 small (1 - 3 mm wide) grey quartz stringers are wavy to irregular are all ~ 50 - 80.
DM16-03	25.85		QV	N			Yes	1 grey quartz stringer, 8 mm wide - cross cutting foliation but very crumbly, broken down grasy core. Euhedral pyrite associated with the stringer; proximal within envelope.
DM16-03	30.84	31.15	QV	N				Orange rust (limonite) coated fractures - intensely crackled milky white quartz with limonite. 2 medium grained sub euhedral galena and more prominent euhedral pyrite pseudomorphing to limonite - also fine grained to medium grained.
DM16-03	33.6	33.8	QV	N	30	30	No	Foliaform, 7 cm wide, mottled grey - white quartz sweat with micaceous fracture fill. Noted very fine grained, euhedral in trace amounts along cross cutting fine fractures to foliation direction.
DM16-03	42.3		QV	N		85	Yes	Rusty fracture - oxidized, limonite; has a 2 cm halo - envelope with associated euhedral pyrite pseudomorphing to limonite. Halo is a pale yellow rust color.
DM16-03	44	44.6	QV	N		85	Yes	3 x 1/2 - 1 mm wide with fine to medium grained crystal pyritohedrons in silica flooded halo / envelope averaging 2 cm wide around 1 mm wide grey quartz stringer. Pyritohedrons have striated faces. Ars are fine grained crystals, coffin shaped crystals with striated faces - oscillitory growth lines.
DM16-03	44.6	44.66	QV	N	90	90	Yes	Milky white quartz; weakly fractured --> multi - phase with a central grey slip (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.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
DM16-03	44.66	45.94	QV	N		85	Yes	3 x 1/2 mm wide grey quartz stringer - widely spaced throughout this interval have associated paled haloes / envelope + fine to medium grained crystal pyritohedrons and lesser crystals ars. - crystals striated (oscillatory growth lines).
DM16-03	48.86	49.03	QV	N	90	85	Yes	Milky white with 10% strip towards the hanging wall side of WRI. The WRI contains 7-10% very coarse grained pyrite crystal - largest 1 cm across. WRI = sericite.
DM16-03	53.55	53.553	QV	N		85	Yes	3 mm wide off white 'jogged' stringer by foliaform slip planes. Medium to coarse grained pyrite associated with stringer. ` 1/2 pyrite crystals associated with stringer.
DM16-03	54.77	55.71	QV Zone	N	40	70	Yes	14 milky cross cutting quartz stringers; some are along stress shears (weak) with banding folae into stringer; all are planar or sheeted. Average 1 cm wide; range 1/2 mm - 2 cm wide; up to 2% sub-euhedral to euhedral, medium to coarse grained crystals; facesstriated - oscillatory growth. Pyrite mostly in matrix (sericite - chlorite SCH) but occasionally in stringer.
DM16-03	56.96	57.6	QV	N	35	35	No	Foliaform quartz sweats with 7 - 15% white pervasive specs - (albitized feldspars?) - no sulphide in sweats.
DM16-04	4.45	4.72	QV	N			?	Overburden - milled; rubble white milky quartz pieces; largest piece 6 cm across; some pieces very vuggy 2 - 3 mm limonite filled square shaped. 6 x 2-3 mm euhedral grains of galena.
DM16-04	5.37	5.66	QV	N	30	30	Yes	~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 orthogognal to lower contact. One 2 mm spec fo galena with associated pyrite. 5% 'washed' WRI.
DM16-04	9.7	10.45	QV	N			?	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.
DM16-04	11.24	12.45	QV	N	70	80	?	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.
DM16-04	13.85	13.88	QV	N	90	90	No	Foliaform, 3.5 cm wide, grey massive quartz sweat; 5% ankerite down middle of sweat.
DM16-04	16.35		QV	N	60	60	No	Foliaform, muscovite grey quartz with ankerite + WRI (20%) through the sweat - no sulphides.
DM16-04	17.13	17.64	QV	N	40		No	Quartz sweat foliaform - Large foliaform quartz (grey) + 15% ankerite and WRI; 'sweat'. Anhedral pyrite noted along irregular wavy contact. No OS.
DM16-04	21.1	21.34	QV	N	50	55	Yes	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	22.15	22.28	QV	N	45	90	?	Milky white 12 cm long vein; moderately fractured partly decomposed pyrite (fine grained) in wall rock within 1 cm of contact to vein - proximal. Contact areas of wall rock are calcareous but quartz vein is not. Contact faces parallel with foliation but vein character is very snow white unlike most foliaform sweats.
DM16-04	24.64	24.85	QV	N	40		Yes	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.
DM16-04	27.86	27.89	QV	N	55	55	No	3 cm wide milky white quartz veinlet / sweat - for the most part foliaform one one side but cross cutting on the other. Sub parallel fracture contain euhedral pyrite (fine grained) + euhedral arsenopyrite + dolomite. Seems to be an original foliaform sweat with later introduced material.
DM16-04	27.92	27.99	QV	N	50	50	Yes	1 stringer with paled weak halo in envelope; carbonate - quartz composition; somewhat irregular.
DM16-04	27.93	27.95	QV	N	65	65	No	2 cm wide grey quartz - foliaform; lenticular 'sweat'. No sulphide within the sweat.
DM16-04	34	34.03	QV	N	45	45	Yes	3 1/2 cm wide milky quartz veinlet.
DM16-04	36.32		QV	N	60	60	No	90% grey quartz; 5% white calcite; black soft interstitial mineral; 5% WRI.
DM16-04	41.57	43.68	Other	N			Yes	Variable. 3 fine (1 mm wide) calcite stringers 5-45 degrees tca.
DM16-04	43.68	43.85	QV	N		60	Yes	Oxidized pale yellow - rust quartz with vug chains along plane fracture. Core broken down into chips; largest piece 7 cm across. Trace galena (very fine grained) associated with other sulphides - pyrite? - other dark sulphide unidentifiable.
DM16-04	47.56	47.64	QV	N	70	48	Yes	Orange / white quartz carbonate vein, 8 cm wide with 5% vuggy open space; trace fine grained pyrite along upper contact.
DM16-04	49.05	49.35	QV	N			No	Deformed contacts; > 8 cm wide deformed quartz sweats with chlorite selvages.
DM16-04	50.73	51	QV	N			No	Folded contact; White quartz sweat, ragged edges highly deformed with minor carbonate.
DM16-04	51.3	51.4	QV	N			No	Deformed contacts; Ragged edge quartz sweat.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
DM16-04	51.5	51.7	QV Zone	N		45	No	Zone of 7 sub parallel quartz sweats up to 3 cm wide with chlorite selvages.
DM16-04	54.64	54.69	QV	N	55		No	4 cm quartz sweat with styolitic chloritic selvages, merges into a 3 cm folded quartz sweat.
DM16-04	58.5	58.63	QV	N	70		Yes	White quartz vein with limonitic fractures, vein is moderately fractured with rare open space cavities; lower contact of vein has fine grained arsenopyrite along margin and within the wall rock plus 3 mm pyrite blebs/ fine grained in cubic outlines.
DM16-04	60.91	61	QV	N			No	Irregular contacts; 5 cm milky white to clear quartz sweat with 3 cm dark green chlorite (after biotite?) selvage on hanging wall side; <1%ragged blebs of fine grained pyrite in chlorite rich selvage on hanging wall side.
DM16-04	61.53	61.7	QV Zone	N		65	No	Zone of irregular shaped quartz sweats and multi-generation of quartz stringers (plus 3% fine grained pyrite) x-cutting older quartz pyrite along rims of older milky quartz; sharp lower contact - 65 degrees tca. 2 mm clear quartz.
DM16-04	62.47	62.61	QV Zone	N			No	Zone of milky white quartz sweats deformed and folded with < 8% fine grained pyrite clots and stringers outlining quartz plus in relic cubic forms and as thin stringers along foliation pyritohedrons and intergrown euhedral crystals throughout; rare arsenopyrite needles.
DM16-05	4.57	4.8	QV Zone	N			?	White quartz with orange limonitic fractures, rounded (double - ground) core caredin from surface material.
DM16-05	7.62	8.6	QV	N			Yes	White broken quartz vein; brecciated upper contact with limonite and secondary quartz crystals as infill to breccia fragments; vein becomes surcrossic towards lower broken contact with fault; rare clots of oxidized pyrite.
DM16-05	10.2	10.3	QV	N			?	Orange coated white quartz vein, broken with intense limonite and manganese coating fractures, < 1% sulphides outlines all oxidized to FeOx.
DM16-05	10.3	10.9	QV Zone	N			No	White quartz sweat zone with up to 3 cm wide with < 1% pyrite --> FeOx.
DM16-05	13.63	13.68	QV	N			No	5 cm wide quartz sweat of white clear quartz highly fractured with chlorite selvages and partings, discontinuous.
DM16-05	17.7	18.2	QV	N	60		Yes	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 - 18.20 m; limey yellow-green oxide ?scorodite?
DM16-05	18.5	18.6	QV Zone	N			?	White quartz fragments in rusty SCH host.
DM16-05	19.6	19.603	QV	N			Yes	3 mm x-cutting white calcite stringer with rusty selvages ad < 1% oxidized pyrite along stringer selvages.
DM16-05	26.3	26.8	QV Zone	N			No	Zone of concentrated deformed quartz sweats with 3% euhedral rusty pyrite.
DM16-05	34.86	34.863	QV	N			Yes	3 mm ragged white quartz stringer, x-cutting foliation with rusty pyrite along selvages.
DM16-05	37.9		QV	N				Zone of white quartz rounded fragments up to 2 x 3 cm with rusty fractures in Mn coated SCH host *possible caved material at end of run?
DM16-05	42.05		QV	N			Yes	2 sub parallel x-cutting calcite + lesser quartz stringers up to 4 mm wide with pyrite selvages.
DM16-05	43.5	43.504	QV	N	50		Yes	4 mm wide quartz / carbonate x-cutting veinlet with euhedral pyrite within veinlet with euhedral pyrite within veinlet plus along foot wall margin; veinlet x-cuts 2 cm wide en echelon foliaform stringers.
DM16-05	45.35	45.4	QV	N	85		Yes	2 cm wide fractured quartz vein with limonitic fractures and local boxwork texture; trace rusty pyrite cubes along lower selvage.
DM16-05	45.5	45.54	QV	N		90	Yes	4 cm wide quartz vein; rusty pits with oxidized cubic pyrite along lower contact.
DM16-05	45.7	45.85	QV Zone	N			?	Zone of discontinuous quartz fragments brecciated?; interval contains several rusty blebs of oxidized pyrite cubes up to 3 mm.
DM16-05	46.6		QV Zone	N	45		No	Zone of quartz sweats with styotite lower contacts lined by chlorite with sericite bands between quartz sweats; local k-feldspar in quartz sweats at 46.8 m.
DM16-05	53.7	54.4	QV Zone	N			No	Zone of quartz sweats up to 30% of interval highly deformed and boudinaged; abundant chlorite along vein selvages; 2 clots of cubic pyrite observed; local k-feldspar within quartz as a small component.
DM16-05	56.9	56.94	QV	N	65	65	Yes	Orange limonite stained milky white quartz vein with large alteration halo; vein is fractured parallel to contacts producing a ribbon texture; fine grained grey ?sulphide observed in vein plus rusty 2 mm cubes of pyrite along lower contact.
DM16-05	60.35		QV Zone	N			No	Zone of abundant discontinuous quartz sweats.
DM16-05	64.55	64.8	QV Zone	N			?	Broken rusty section of 50% milky white quartz vein material up to 6 cm vein material is fractured with trace euhedral pyrite at selvages and 2 mm pyrite cubes in sericite schist host.
DM16-05	66	66.01	QV	N		65	Yes	< 1 cm wide white calcite + quartz + pink feldspar crystals x-cutting foliation.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
DM16-05	71.3	71.31	QV	N		80	Yes	1 cm white quartz / carbonate stringer that x-cuts foliation and has associated 1% rusty euhedral pyrite in hanging wall wall rock for 10 cm.
DM16-05	72.4	72.8	QV Zone	N	10		Yes	Within fault is a preserved quartz / carbonate stringer 4 cm wide broken along a shear 10 degrees tca.
DM16-05	74.4	74.8	QV Zone	N			No	Zone of white fractured quartz sweats + carbonate, broken and brecciated in a chlorite rich cement; quartz up to 35% of interval; trace fine grained pyrite along quartz fragments.
DM16-05	76.1	76.2	QV Zone	N	85		Yes	Zone of multi-generational quartz sweats with stylolitic convoluted contacts outlined by chlorite / sericite envelopes and x-cut by white quartz / carbonate - discontinuous and up to 5 mm wide <1% fine grained pyrite overprinting oder euhedral pyrite.
DM16-05	76.2	77.72	QV Zone	N			?	Zone of white and clear quartz fragments up to 2% in fault; quartz fragments have trace amounts of 1 mm sized pyrite cubes.
DM16-06	4.27	4.57	QV Zone	N			Yes	0.3 m interval of ground OVB with quartz vein rubble 60% with trace 4 mm pyrite cubes - oxidized.
DM16-06	4.9	5.4	QV Zone	N			?	Zone of white quartz up to 2 cm wide cutting a fold in SCH; quartz is very fractured and outlined by 2 mm rusty (limonite after pyrite) selvages.
DM16-06	8	8.3	QV	N	50		Yes	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.
DM16-06	8.5	8.9	QV	N			Yes	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.
DM16-06	9.35	9.55	QV Zone	N			No	Zone of concentrated white and clear quartz fragments up to 5% of interval with rusty selvages.
DM16-06	9.55	9.65	QV	N	50		Yes	10 cm chunk of rusty limonitic quartz vein with a bleb of galena minor open space yet fractured which are coated in limonite.
DM16-06	9.9	10.67	QV	N			?	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.
DM16-06	11	11.5	QV Zone	N			?	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.
DM16-06	14.4	14.42	QV	N	75		Yes	2 cm wide white quartz/ calcite stringer with rusty boxwork open space along upper contact, trace 2 mm rusty pyrite cubes.
DM16-06	15.4	16.15	QV Zone	N			?	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.
DM16-06	16.15	16.6	QV Zone	N	70		?	Zone of 3, 2 mm wide quartz / calcite stringers with rusty alteration envelops.
DM16-06	18.2	18.4	QV	N			?	Very white quartz vein fragments with no limonite; internally fractured into crude cubes, no sulphides.
DM16-06	18.7	19.3	QV	N	70	65	Yes	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).
DM16-06	23	23.25	QV Zone	N			?	Zone of quartz / carbonate stringers along foliation up to 6 cm wide; brown siderite (1 x 2 cm) laths in calcite at 23.2 m; trace fine grained pyrite.
DM16-06	25.2	25.9	QV Zone	N			Yes	QV / SCH - chlorite - sericite - muscovite - quartz SCHIST with 30% quartz vein fragments. *broken with 0.30 m LOST *possible vein material lost during drilling.
DM16-06	28.2	28.6	QV Zone	N		50	No	Zone of < 7 mm wide quartz sweats making less than 10% of interval; common discontinuous carbonate stringers, x-cut unit.
DM16-06	35.6	35.61	QV	N	50		Yes	1 cm ribboned quartz carbonate stringer, x-cuts foliation; middle parting has open space with cockade drusy quartz infill and associated FeOx staining trace rusty euhedral pyrite along selvages.
DM16-06	37.85	38.5	QV Zone	N			?	Zone of concentrated quartz sweats up to 6 cm wide in faulted SCH.
DM16-06	38.5	38.6	QV	N			?	Discontinuous < 1 cm wide quartz veins bleed into foliation of host away from x-cutting fault limonite structure at hanging wall side at 38.6 m (detailed sketch in log). Sheared and cockade quartz oriented 50 degrees tca (almost 90 degrees to foliation) interval contains several 3 cm3 fragments of limonitic and white QV material with 1 mm sized pyrite cubes along selvages - mix of quartz sweats and QV.

Hole number	From	To	Code	VG	UC Angle (tlca)	LC Angle (tlca)	X-Cut	Vein Description
DM16-06	39.65	41.15	QV Zone	N			?	Zone of quartz sweats up to 2% of interval < 1.5 cm wide.
DM16-07	12.5	12.504	QV	N	70		Yes	4 mm limonitic x-cutting rusty quartz stringer at 85 degrees tca with 1% rusty pyrite cubes at margins of stringer; in a zone of highly deformed sericite rich SCH with 3 cm wide lenses of quartz sweats outlined fine grained rusty pyrite.
DM16-07	14.5	14.8	QV Zone	N		80	Yes	Zone of three 2 mm wide quartz x-cutting stringers with associated euhedral, fine grained pyrite grains - rusty.
DM16-07	15.3	15.5	QV	N	40	50	Yes	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.
DM16-07	15.5	15.6	QV Zone	N		75	Yes	Footwall alteration to QV; silicified and limonite cut by three < 3 mm white x-cutting quartz stringers. ; trace blebs of fine grained pyrite in rusty pits.
DM16-07	21.5	22	QV	N	80	50	Yes	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 orient 40 degrees tca. Lower contact is brecciated with 1 cm angular SCH fragments in quartz.
DM16-07	22	22.86	QV Zone	N			Yes	Broken upper and lower contact; Zone of mixed felsic schist and 30% QV fragments up to 3 cm3 in size quartz fragments very mineralized with up to 5% galena cubes and open space cavities with drusy quartz crystals partial infill.
DM16-07	23.06	23.13	QV	N	70		Yes	Ribbon QV with 3 parallel rusty pyrite fractures within quartz vein; pyrite veis parallel QV contacts; 5% euhedral pyrite cubes (< 2 mm).
DM16-07	23.2	23.203	QV	N	70	70	Yes	3 mm QV with pyritic selvages.
DM16-07	23.8	23.81	QV	N	65	65	Yes	1 cm wide quartz stringer with 2% euhedral pyrite selvages and in QV up to 2 mm across.
DM16-07	24.1	24.107	QV	N			Yes	Broken upper and lower contacts; 7 mm QV with 3 mm pyrite cubes, x-cutting SCH.
DM16-07	24.5	26.7	QV	N	50	40	Yes	Target 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.
DM16-07	25.3	25.5	QV Zone	N				Zone of very concentrated rusty pyrite up to 10% with lesser associated galena blebs plus rusty pits with boxwork texture.
DM16-07	27.1	27.25	QV	N			Yes	Broken contacts. Continuation of QV between 24.5 - 27.25 with limonite on fractures; QV broken with intensely rusty with FeOx pits of cubic pyrite on foot wall selvage 4%.
DM16-07	27.55	27.75	QV Zone	N			Yes	Broken contacts; 80% 3 cm3 QV material broken with 20% completely oxidized wallrock with < 2% pyritehedrons in host and < 1% rusty FeOx blebs in quartz vein fragments.
DM16-07	31.3	32.1	QV Zone	N			?	Broken contacts; possible CAVE drillers marked "2 faults" with no fault material recovered; 10 pieces of rounded QV material.
DM16-07	34.55	34.551	QV	N	80		Yes	1 mm wide quartz stringer + set of 8 hair width dry fractures x-cut quartz rich striped SCH with associated 2 mm blebs of pyrite cubes.
DM16-07	34.6	34.75	QV	N			Yes	Broken contacts; mottled white and pale cream Quartz vein with 10% open space pits and cavities with local cockade quartz crystals infill; fractures are covered in limonite thick FeOx <1% fine grained pyrite in rusty larger blebs; one spec of possible galena?
DM16-07	34.85	34.9	QV	N	80	75	Yes	5 cm wide QV with 10% open space, < 3 cm x 1 cm cavities with skeletal boxwork texture with green - yellow (arsenopyrite looking) oxides; < 1% pyrite in rusty blebs.
DM16-07	35.65	35.665	QV	N		75	Yes	15 mmm + 3 < 3 mm quartz veins white with open space up to 10% x-cut sericite schist and banded quartz rich schist; thiner QV's at 75 and 65 degrees tca. 1% pyrite cubes < 2 mm across in wall rock and QV selvages.
DM16-07	37.3		Other	N	80		Yes	Rusty dry fractures of FeOx x-cut SCH iwth associated pyritic rusty alteration envelopes.
DM16-07	39.7	40.5	QV Zone	N	80		Yes	Rusty white QV with rare open space; fractures coated in limonite 3 specs of fine grained pyrite in rusty pits. *Fault gouge + 2 mm2 chips of quartz. *0.5 m LOST.
DM16-07	41.2	42	QV Zone	N	25		Yes	Zone of 90% ragged white foliaform quartz sweat with wavy bouded sericite schist lenses along foliation.
DM16-07	47.4	47.402	QV	N		85	Yes	2 mm wide quartz stringers with rusty fine grained pyrite along selvages.
DM16-07	48.5	48.56	QV	N	55	60	Yes	6 cm QV white x-cutting ribbon textured vein with grey stained fractures parallel contacts; no sulphides seen.
DM16-07	49.5	49.7	QV Zone	N			Yes	Broken contacts; 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.
DM16-07	50.5	50.8	QV Zone	N	65		Yes	50.5 and 50.8 m - 3 mm wide x-cutting quartz stringers with 1% local concentrations of cubic pyrite in quartz + as rusty selvages, 3 mm wide.
DM16-07	51.4	51.403	QV	N		40	Yes	3 mm QV with pyrite + open space.

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DM16-07	51.55	51.6	QV Zone	N		90	Yes	Zone of three x-cutting thin < 4 mm wide quartz stringer oriented 90 degrees tca; associated with pyrite cubes + limonite zone between 51.55 - 51.82 m - E.O.H.
DM16-08	2.8	2.81	QV	N	60		No	< 1 cm foliaform quartz stringer with < 5 mm chlorite alteration envelopes.
DM16-08	3.13	3.136	QV	N	50		?	Yes? 4 - 6 mm wide x-cutting? ribboned quartz stringer with hematite lower selvage trace oxidized pyrite as rusty pits.
DM16-08	4.57	4.61	QV	N			No	Broken contacts - 4 cm wide broken white - clear quartz stringer - foliaform 60 degrees tca, no sulphides.
DM16-08	5.6	5.8	QV	N	75		Yes	Milky white cross cutting quartz vein with 10% open space cavities with 3% pyrite local boxwork; intense limonite / FeOx coating; on hanging wall fracture is a 2 x 3 mm galena bleb proximate open space boxwork lattice.
DM16-08	8.5	8.502	QV	N		50	Yes	2 mm white carbonate x-cutting stringer with hair width rusty selvages.
DM16-08	10	11.65	Other	N		50	Yes	27 rusty fractures - sheeted rusty (quartz-less) dry fractures with FeOx cut interval at 90 degrees to foliation.
DM16-08	12.2	12.4	QV Zone	N		60	Yes	Zone of 4 sheeted quartz + dry fractures x-cutting SCH-m; bladed alteration envelopes up to 1 cm surround fractures; intense FeOxide and 1% rusty pyrite in quartz at 12.2 m; quartz stringer < 3 mm with cockade quartz crystal growth and 40% open space.
DM16-08	16	16.004	QV	N	55		Yes	4 mm wide x-cutting quartz stringer with rusty fractures + 1% pyrite cubes in quartz stringer itself.
DM16-08	16.1	16.15	QV	N			Yes	Broken upper and lower contacts. 10 cm + section of intensely fractured white quartz vein with orange limonitic fractures; veins mottled and shattered throughout, rusty sericite partings, no sulphides observed.
DM16-08	16.5	19.3	QV	N			No	Foliaform quartz is very deformed and discontinuous < 2% of interval.
DM16-08	21.5	21.8	QV	N	75	65	Yes	Limonitic milky white quartz vein with grey patches in quartz giving a mottled texture rare open space and limonite coats fractures within vein, trace fine grained pyrite.
DM16-08	22.25	22.255	QV	N		55	Yes	5 mm white x-cutting QV with rusty selvages and one bleb of pyrite in quartz.
DM16-08	24.44		QV	N		75	Yes	Rusty milky white QV with large 3 cm long open space cavity along upper contact with boxwork FeOx texture in open space. Trace fine grained pyrite.
DM16-08	24.7	24.71	QV	N			Yes	1 cm rusty QV with 2% euhedral rusty pyritohedrons and cubes < 3 mm.
DM16-08	24.83	24.86	QV	N			Yes	3 cm wide non planar QV with < 1% pyrite cubes along selvage; Lower contact of vein has rusty large open space cavities.
DM16-08	24.86	25.73	QV	N		65	Yes	Set of > 15 sub parallel mostly dry rusty fractures with 4 mm wide quartz at 25.32 m.
DM16-08	25.8	26.75	QV	N	40	60	Yes	"Bull" white massive quartz vein with rare open space as < 2% 4 mm sized pits light dusting of limonite but rare interval fracturing of vein. no sulphides observed.
DM16-08	26.95	27.2	QV	N	60	60	Yes	Milky white QV with grey interval fracturing (compared to massive vein above) 2% pyrite along upper and lower contacts as cubes.
DM16-08	27.2	28.2	QV	N	65		Yes	Strongly mineralized white QV with large clots of euhedral galena up to 1.5 cm across; vein has common large open space cavities with FeOx + quartz crystals + galena in boxwork textured cavities; --> high grade very porous with up to 7% galena between 27.65 - 27.85 m. See photos; 20% open space.
DM16-08	28.33	28.7	QV	N		50	Yes	Orange colored mottled QV with abundant interval limonitic fractures displaying exsolution "fine" network texture; up to 5% finer grained clots of galena (?arsenopyrite) ad one cavity with malachite staining. Sulphides are in finer grained blebs but more evenly distributed intense FeOx coating fractures at 28.68 m is a 1 cm2 rusty pit with textbook boxwork texture --> angular pits of rusted out pyrite.
DM16-08	31.2	31.5	QV	N		50	Yes	Pale yellowy white QV with common fracture of limonite + FeOx and pyrolusite; 5 clots < 5 mm wide of poorly formed galena + finer 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.
DM16-08	32.12	32.14	QV	N			Yes	Rusty white 2 cm quartz stringer cross cutting foliation with rusty alteration halo of 5 cm containing 2% euhedral pyrite clots.
DM16-08	34.05	34.35	QV Zone	N	75		Yes	Zone of rusty pyritic SCH hosting 4 x-cutting QV's up to 3 cm wide (@ 34.17 m) ribboned veins with FeOx + Mn on fractures.
DM16-08	34.26	34.263	QV	N		75	Yes	3 mm quartz stringer with trace fine grained pyrite along Mn coated lower contact.
DM16-08	34.28	34.283	QV	N	70		Yes	Rusty 2 mm x-cutting quartz stringer.
DM16-08	34.35	37.5	QV Zone	N			Yes	Zone of x-cutting hair width rusty fractured 20 throughout section with (36.7 m) 2 mm porous quartz stringer 5% rusty local pyrite cubes along lower contact. (36.77 m) 2 cm wide quartz stringer ribboned, fractured milky white / cream coloured mottled with 5 mm cube of fine grained pyrite; multi-injection stringer. (37.0 m) 4 mm wedge to 1 cm wide quartz stringer with open space pits, rusty selvages.

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DM16-08	37.6	37.66	QV	N	50		Yes	Orange ribbon QV with at least two injections of quartz (see photos). Hanging wall 1 cm portion of vein has 10% round 2 mm vugs coated in FeOx.
DM16-08	38.1	38.5	QV Zone	N		50	Yes	Zone of 5 < 5mm wide waxy white quartz stringer x-cutting SCH.
DM16-08	38.5	38.6	QV	N	75	90	Yes	White with rare open space and few interval fractures coated in limonite; foot wall contact is sharply truncated and coated in FeOx. Hanging wall contact has 6 mm octahedral outline infilled with fine grained pyrite, trace rusty pyrite blebs in QV.
DM16-08	38.7	38.716	QV	N		80	Yes	16 mm wide x-cutting white quartz stringer with a second quartz stringer that is parallel. 1 cm away and 3 mm wide, ribboned stringer with euhedral rust coated pyrite in quartz + along strong margins.
DM16-08	39.3	39.8	QV Zone	N			?	QV Zone in fault. (39.4 m) 3 cm rounded fractured QV fragment in limonitic gouge vuggy with FeOx and fine grained pyrite. (39.7 m) < 1 cm wide quartz stringer in pyritic faulted SCH.
DM16-08	40.2	40.8	QV Zone	N		65	Yes	Zone of 7 x-cutting milky white quartz stringers up to 4 mm wide with associated 5% rusty pyritohedrons up to 5 mm across.
DM16-08	41.9	42.1	QV	N			No	Zone of rusty sericite rich SCH with 5% local concentration of euhedral 3 mm sized pyrite cubes and pyritohedrons; < 6 cm wide irregularly shaped quartz sweat --> may have been reactivated with alteration but difficult to confirm.
DM16-08	43.6	43.65	QV	N	30		Yes	Two parallel < 1 cm wide x-cutting quartz stringers 30, quartz + carbonate with 5% local concentration of pyrite cubes in the quartz.
DM16-08	45.7	45.85	QV	N			Yes	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.
DM16-08	46.6	46.61	QV	N		45	No	1 cm wide white quartz foliaform stringer with 10% open space cavities rusty with local boxwork texture.
DM16-08	47.5	47.65	QV Zone	N		50	Yes	Zone of 7 sub parallel quartz stringers x-cutting up to 1 cm wide but generally 2 - 3 mm wide with 10 - 20% open space with quartz crystal partial infill and fine grained pyrite selvages; rusty 2% pyrite cubes in host rock.
DM16-08	47.65	47.72	QV Zone	N	55	50	Yes	Fractured orange limonite giving quartz vein a mottled look both contacts have quartz crystal growth and large 4 mm pyrite cubes ad box work texture.
DM16-08	48.5	48.77	QV	N			No	1 cm wide quartz fragments (in faulted SCH interval) with rusty selvages.
DM16-09	4.48	4.7	QV	N			No	White and grey clear quartz rubble up to 3 cm wide - likely a quartz sweat? < 1% 3 mm sized rusty pyritohedrons in quartz.
DM16-09	12.1	12.108	QV	N			Yes	8 mm boudinaged x-cutting orange quartz stringer with rusty envelope - deformed with anastainozing lagged white calcite stringers on foot wall.
DM16-09	14.8	14.81	QV	N	30		Yes	1 cm limonite stained x-cutting QV with 2 - 8 mm wide rusty yrite cubes along vein selvage.
DM16-09	14.95	15.4	QV	N	30	35	Yes	Orange stained milky white internally fractured QV giving a crakled texture; in quartz local 2 cm x 3 mm wide open space with FeOx + boxwork texture, 2% rusty pyrite cubes.
DM16-09	15.65	15.85	QV	N		40	No	White and clear grey foliaform QV, mottled fractured internally with manganese coating - no limonite).
DM16-09	15.9	16.2	QV Zone	N	35		No	Zone of 3 foliaform quartz stringers with rusty pyritic selvages.
DM16-09	18.9	19.8	QV	N	30	65	Yes	Target "Dome Load" QV 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 m.
DM16-09	28.4	28.7	QV Zone	N			Yes	Fracture zone of 5 x-cutting white quartz stringers generally < 4 m with rusty selvages; @ 28.6 - 4 cm wide bull white quartz fragments with 3 mm blebs of pyritohedron shaped fine grained brassy pyrite infill < 1% pyrite.
DM16-09	29.95	30.1	QV	N			No	Slice of white and clear grey quartz sweat with sericite parting in quartz.
DM16-09	34.9	34.902	QV	N		60	Yes	2 mm pyritic quartz stringer - intensely rusty with 10% open space and 5% euhedral pyrite cubes along footwall quartz margin.
DM16-09	39.3	39.6	QV	N		35	No	Altered zone of rusty SCH with < 7 cm white quartz (sweat?) along foliation; hanging wall is rusty with 25% open space, trace fine grained pyrite.
DM16-09	43.2	43.215	QV	N	40		Yes	15 mm wide quartz stringer x-cutting foliation with 2% pyrite along margin and 20 cm foot wall alteration zone of 5% euhedral pyrite (often striated).
DM16-09	47.55	48.2	Other	N		30	Yes	Zone of x-cutting calcite vein with magnetite concentrated along footwall contacts.
DM16-09	50	50.003	QV	N	60		Yes	X-cutting thin quartz + carbonate stringers up to 3 mm wide 2% euhedral pyrite in host hornfels unit.
DM16-10	1.52	1.8	QV Zone	N			No	Zone of < 1 cm wide ?foliaform grey and white quartz fragments at top of hole rust, euhedral pyrite blebs.

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DM16-10	13.5	13.503	QV	N		25	Yes	3 mm pitted quartz stringer x-cuts foliation has 20% open space with 5% euhedral pyrite in quartz plus concentration along hanging wall selvage and has a rusty 1 cm alteration halo.
DM16-10	14	14.3	QV Zone	N			Yes	Zone of broken pyritic quartz stringer up to 1 cm wide, 2% euhedral pyrite.
DM16-10	15.9	16	QV	N			No	10 cm cloudy white and grey with sericite along stylolitic interval fractures, trace fine grained pyrite along footwall.
DM16-10	17.7	18.3	QV Zone	N			50 Yes	Fault with 20% QV fragments as hanging wall to QV system below; quartz stringer up to 3 cm wide with cockade quartz crystal growth in open space fractured FeOx intense (?? pyrite).
DM16-10	18.3	18.6	QV	N				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	19.1	19.8	QV	N		45	Yes	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.
DM16-10	19.8	20.8	QV Zone	N			Yes	Quartz stockwork at hanging wall to vein with up to 10% total quartz with cockade quartz crystal texture. At 20.1 m 3 cm competent quartz stringer manganese stained.
DM16-10	20.5	20.8	QV Zone	N			Yes	Broken faulted footwall FeOx rich SCH with quartz vein chips < 1 cm across in limonitic gouge.
DM16-10	22.75	22.76	QV	N		30	Yes	Mn coated fracture with < 1 cm wide quartz stringer broken fragments with < 1% euhedral pyrite selvages.
DM16-10	25.7	25.74	QV	N			?	4 cm discontinuous quartz stringer + 2 boudinaged > 15 mm foliaform quartz stringer zone; non limonitic.
DM16-10	27.2	27.24	QV	N			65 Yes	4 cm wide x-cutting quartz stringer white with 2 mm FeOx on footwal contact ad 3% euhedral pyrite on footwall.
DM16-10	27.5	27.53	QV	N		40	Yes	2.5 cm wide white x-cutting quartz stringer with rusty selvages with euhedral pyrite cubes up to 1 cm2 infilled by fine grained pyrite with rusty halos along hanging wall and footwall.
DM16-10	28.1	28.103	QV	N		55	Yes	3 mm x-cutting quartz / carbonate stringer.
DM16-10	28.15	28.154	QV	N		45	45 Yes	4 mm white quartz stringer with pyrite selvages and 3 cm rusty alteration envelope.
DM16-10	28.85	29.2	QV Zone	N		50	50 No	Set of 8 parallel quartz stringers up to 1 cm wide along foliation with rusty FeOx goethite envelopes.
DM16-10	31.5	31.65	QV Zone	N			No	Zone of 30% irregular shaped quartz sweats up to 4 cm wide with stylotic rusty contacts, quartz sweats discontinuous.
DM16-10	32.1	32.13	QV	N		20	Yes	Bright orange FeOx QV up to 3 cm wide with 7% open space pits - roundish vugs. *One 0.5 x 2 cm long bleb of galena in quartz; vein is cut by very late stage rusty fracture 5 degrees tca which cuts QV foliaform sweat dextral small scale < 1 cm offset of vein.
DM16-10	32.7	32.8	QV	N		75	75 No	White quartz with no limonite in quartz but common cubic pyrite shapes up to 1 cm with FeOx + fine grained pyrite partial infill.
DM16-10	40.2	41.5	QV Zone	N		60	60 Yes	Zone of 12 sheeted up to 4 mm wide where quartz carbonate stringers cutting quartz rich magnetite bearing SCH. < 1 cm wide bleached alteration halos - lower 8 cm is a slice of > 4 cm wide quartz (sweat? or feeder zone to sheeted veins?) with 5% brassy local concentration of pyritohedrons.
DM16-10	49.7	49.704	QV	N			38 Yes	4mm wide quartz / ankerite stringer, x-cutting foliation with rusty pyrite lower selvage, pyrite < 1%in quartz + along lower contact as euhedral cubes.