

Frontier Resources Detailed Drill Log									
Hole Number		BSD1	Sheet No	1	Mineralisation / Alteration and additional descriptors				
HOLE_ID	INTERVAL	ROCK CODES		Alteration summary					Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details
	FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	
BSD1									eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets
BSD1	0.00	0.60							Medium to dark brown soil. Some rock fragments and roots inclusive. Rock clasts to 30mm, highly weathered. Also qtz vein material to 50mm with weathered wall rock. Abrupt to
BSD1	0.60	7.50							Mildly variable. Grey/ green, orange, qtz, sericite, chlorite oxidised and leached rock. Zone of FeO from the ox of previous pyrite. Core is rubby and broken. A pervasive fabric is seen throughout the core, approx 40d TCA.. Zones of more intense chlorite(green) are occasionally seen. As depth increases rock becomes less ox and occasional euhedral pyrite is seen. Diffuse to
BSD1	7.50	20.00							Dark grey/ black/ green, milky green feldspars to 5mm, qtz phenos to 4mm, needle like amphiboles??? To 4mm and aggregates in a black (chlorite?, Biotite?) / grey ground mass. Feld, Qtz, Amp porphyry ????? Possibly in the groundmass is black domain to 5mm of biotite? velvety looking. The core is moderately fractured, locally intense. Over the interval, 1 qtz vein at 15.6, 10mm wide, 45d TCA, Qtz, chlorite, pyrite, FeO. Minor fabric, minorly variable, parallel TCA. Some zone of more abundant feld and less amp? e.g. 19.5. Pyrite is found as disseminations throughout the whole interval. Occasionally found in a fine vein, 2mm wide, or as a clot to 5mm. Overall less than 1%.
BSD1	20.00	38.30							Same rock composition as above, but more heavily fractured and has numerous zones pug (minor faults?, joints? ) sympathetic? To a more major fault coming up. Fault/ joints at 23.9, 50mm pug, 24.1, 30mm pug and rock chips, 27.85, 20mm pug and rock chips, 28, 40mm pug and rock chips, 33.9, 60mm pug and rock chips, joint surface at 25d TCA. Fine tensional veins are seen from 21-26, 1mm wide, 45d TCA, others at 35-37, 1mm wide, 45d-75d TCA. Pyrite is found as disseminations in similar amounts to the interval above. At 39.7 vein of Sphalerite, pyrite, chlorite, 10mm wide approx 15d TCA. As the concentration of fracturing has increased veinfill and blebby pyrite has also. V minor Cpy is seen with the blebby Py. Abrupt to
BSD1	38.30	40.95							Heavily oxidised, rubbly, puggy and recemented rubble. Overall an orange, cream/ orange, cream/ green rock. Chlorite, sericite, iron oxides and clays. 1 Zone of unaltered rock at 38.3-39.1, Hbd, qtz, minor feld porphyry. Fault zone after 39.1. Boundary coming up to alt front at 39.1 is diffuse over 0.1 increasing in chlorite? sericite?. At 39.3, slip is present, 5-10d TCA, slightly convex. 39.2-39.6, core is heavily fractured but.
BSD1	40.95	43.70							Overall a grey, varying diffusely from darker to lighter, Starts to become lighter at 41.4, increase in silica/ sericite? and starts to get darker around 43.2. Spotty in patches generally by a black mineral to 2mm, sometimes needleish biotite? Chlorite?. The rock is composed of Qtz phenos to 3mm, minor feld to 3mm, in a grey groundmass, Biotite?, chlorite. Diffuse and murky boundaries. Biotite/ chlorite stick out. Core is generally fractured throughout, but 100% coherent, of random orientations. Marked increase in pyrite as disseminations, veins and veinlets. At 41.1, py vein, 5mm wide, 90d TCA, 41.1-41.6, py vein 5-7mm wide, erratic, approx 5d TCA ending in massive pyrite blotches at 41.6 to 40mm on one side of the core, 41.75, fine banding of disseminated py over 30mm, 45d TCA, 42.3-42.45 disseminated veins, 45d TCA also veinlets at 80d TCA. Overall py disseminated throughout. Some zones intense, some devoid. Qtz veining, milky, 41.6, 30mm wide, 35d TCA. Different orientation than py veins. Contains minor bright orange mineral as a sheet, Kspar?. 43, 10mm wide, 30d TCA. Chlorite/ py veins at 42.4, 100mm wide, 45d TCA, contact to below, 42.5 is approx 80d TCA. 43.7, 5-10mm wide, 45d TCA. The areas of more intense py have fine random diffuse veinlets and disseminations, flooding into fractures?. The major veins define an orientation. also with the increased py a black fine mineral is "flowing" through the rock, biotite? Some minor zone s of magnetism, magnetite concentrated around chlorite/ py veins.
BSD1	43.70	46.00							Overall a black/ grey to dark grey rock. Qtz phenos to 4mm, clear, fractured, evenly to unevenly distributed, minor milky green feld to 5mm evenly to unevenly distributed in a much finer but not aphanitic ground mass, black/ grey/ green. From 43.7-45, fine green needles, similar to higher up the hole, Amp? Biotite? Chlorite?. This interval has many green chlorite veins to 15mm wide but generally 5mm, on varying orientations, generally around 45d TCA to 10d TCA. Magnetite is found around the chlorite veins. Qtz vein with chloritised wall rock at 44, upper contact 65d TCA, 30mm wide, lower contact is approx 65d TCA. Pyrite is minor, spotty, patchy or disseminated. Abrupt contact to below, 20d TCA. Fault? No slip. Vein. 6mm of a white clay, with a bright orange mineral as a thin vein, K spar?, minor green mineral, fuchsite?
BSD1	46.00	47.10							Spotty, qtz phenos? Grains? To >20%, to 4mm. Far more than previous interval. Rare feld. In a matrix of darker grey chlorite? Biotite? Silica, pyrite. Becomes lighter down the interval. The entire interval is intensely pyritised. Pervasive disseminated, minor, more or less fill of fabric. At 47, 2 py veins, 3mm wide, 40-45d TCA. These 2 veins are slightly disjointed and erratic and seem to be surrounding clasts of a similar rock, not the same?. Fabric starts and increases down hole, mineral alignment around qtz, black chlorite? veinlets, fine fracturing. Orientation variable, 30,35,25d TCA, overall 30d TCA. Diffuse but abrupt to
BSD1	47.10	48.40							Overall begins as spotty grey to 48, then becomes a spotty dark grey rock. Similar rock as the interval above with a large amount of qtz phenos? Grains in a grey/ black groundmass. This interval is defined by a zone from 47.75-48.1, diffuse boundaries on either side, appears as a finely laminated, sheared sediment, inclusive of xenoliths? to 15mm, and qtz phenos? grains similar to the units above and below. The fabric is most intense between 47.7-48.1, 35,40,30,45d TCA, over the finer sediment? area. Dies out by the end of the interval although rock hairline fractures, similar to the fabric of the rest of the whole remain. Qtz vein at 48, 80d TCA, 47.7, 80d TCA, both 5mm wide. Over the interval large clasts?, above 8mm are found, out of place?. 1 qtz clasts found has py vein, perp to fabric, no continuation on either side. Clast at 49, 25mm long, not from here. Pyrite is pervasive and banded, as shearing decreases pyrite becomes patchy, disseminated. Diffuse to
BSD1	48.40	63.30							Overall a dark grey, spotty rock. Qtz phenos/ grains? To +/- 20%, to 6mm and occasional xenolith? To 15mm, within a grey, black matrix of chlorite, biotite?, silica, minor pyrite, minor blotchy and selvaged/ veinlet magnetite. There is a pervasive fabric throughout the interval. Fabric defined by hairline fractures, occasional mineral alignment around the qtz, and black veinlet orientation, 20,20,25,25,30,40,45,45,20,50d TCA. Qtz veins, 52.25, 5mm wide 70d TCA, 53.8, 30mm wide, 45d TCA, 53.6, 10mm wide, 70d TCA.. At 53.8 also fine veins of varying orientations of an orange mineral, K spar?. Pyrite veins, 53.3, 6mm wide, 25d TCA, 56.9, 8mm wide, 75d TCA, +qtz, 59.9, 15mm wide, 40d TCA, 60.3, 10mm wide, 40d TCA, 60.45, 6mm wide, 50d TCA, + qtz, 60.2, 30mm wide, 45d TCA. Pyrite is found as disseminations, locally moderate, but overall minor. Occasional cpy to 1mm generally found with py. Magnetite found throughout, veinlets and associated with other veining. Occasional, what looks like a pinker qtz? grain. Only to 1mm, eg at 55.7. Also seen at 55.7, pink lathe?. Abrupt to
BSD1	63.30	63.60							Qtz, chlorite, py vein. Contact uphole, 30d TCA, downhole, 40d TCA. Abrupt to
BSD1	63.60	64.20							Same as 48.4-63.3. Fabric at 30d TCA. Qtz veins at 64.05, 60,60,35d TCA. Dipping to different orientations. Abrupt to.
BSD1	64.20	65.25							Massive qtz, white, vein, 3/4, with inclusive wall rock, 1/4. Wall rock is the same as the interval above but more intensely chloritised. The white qtz has occasional void containing euhedral py to 8mm and aggregates. Rare sphalerite to 4mm, rare cpy to 3mm, euhedral chlorite in voids as domes. On the margin of the lower contact, 30d TCA, sphalerite, cpy. Abrupt to
BSD1	65.25	70.20							Same rock as above last interval but qtz phenos? Grains may become tightly packed, 60%?. After 67.9 core begins to get greyer, minor green tinge, increase in silica, chlorite?, sericite?. Distinct fabric still seen, alignment of minerals, also around qtz grains, hairline fracturing, milky green/ grey mineral 'flowing' through, variable, 10,5,0,5d TCA. From 69.3 fabric is less defined and a visible change is seen at 69.7 to an orientation of 45d TCA. Fine disseminated py throughout, minor in some zones to moderate in others. What looks like fine extensional veining at 70, 80d TCA, semi massive py at 70.1, 20mm wide, 90d TCA, semi massive py at 69.7, 30mm wide, 90d TCA. Qtz veins, 65.6, 40mm wide, 45d TCA, 65.5, 10mm wide, 45d TCA, Qtz, sphalerite, py x2, at 65.9, 20, 30mm wide, 40d TCA. Qtz vein at 69.9, 125mm wide, 69.8, 10mm wide, 50d TCA. Over the entire interval, magnetite is found as blotches, veinlets, consistent. Increasing DH?. Diffuse to
BSD1	70.20	72.80							Rock becomes a little darker but otherwise unchange in composition except for the introduction of minor, but increasing pink spots, to 1mm. The qtz content remains roughly the same but begins to die off after 71.7. Pink mineral, looks like a garnet, leucoxene?. Best seen at 72.4. also here is 2 laths to 1.5mm, tan/ pink. pyrite as disseminations. Magnetite consistent as blotches and veinlets. Diffuse to

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	FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn				3rd Altn
BSD1									eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets	
BSD1	72.80	73.25							Mid grey groundmass with black irregular sized crystals of black biotite to 3mm. Possible alignment of buiotite approximately parallel TCA. Qtz phenos in groundmass to 3mm but far less abundant than in most of the core.Minor dissem/ blotchy pyrite. Contact to below is abrupt with an irregular contact approx 10d TCA	
BSD1	73.25	73.60							White vuggy qtz vein. Euhedral coarse pyrite mixed with chlorite and wallrock from 73.35-73.5. Minor fuchsite at 73.5. Two small spots of moly in same area. Contact to below is abrupt at 40d TCA.	
BSD1	73.60	76.70							Begins the same as the interval 72.8-73.25 and progressively becomes darker. From approx 74.7 qtz pheno concentration increases and overall the rock becomes darker, similar to most of the porphyry. Dark grey groundmass, with qtz phenos to 4mm, mostly around 2.5mm, and in some zones tightly packed. Variable, minor pink spotty mineral to 1mm, leucoxene? No feld seen. Prevasive disseminated/ blotchy pyrite occasionally banded, diffusely to semi massive, 73.85, 30mm thick, 70d TCA, Qtz, Py, Gal, Sp, Cpy, Mag, Po, orange mineral, k spar?. 74, 20mm thick, 70d TCA, Py, Gal, Sp. 74.2-74.5, variable, 30,4d TCA. The interval is variably magnetic. Fabric begins at approx 75.8 with tensional qtz veins, 55,70,80, 90d TCA. Fabric is variable at approx 20d TCA. Vuggy Qtz vein at 76.25-76.45 with inclusive wall rock, minor py and chlorite, contact to above 30d TCA, to below 45d TCA. qtz vein at 76.55, 8mm wide, curving, from 20d TCA to parallel TCA. Abrupt to	
BSD1	76.70	77.45							Light to mid/ dark green, brassy yellow, metallic black, blotchy, +/- Py, chlorite and magnetite with minor Cpy, Sp? No structure/ banding. Erratic. Mag blotches to 30mm and similar for Py. Py may be coarse and clustered and euhedral of fine. Minor epidote? Chlorite and other micas?. coarse and euhedral to 2mm in some zones. Diffuse tlo	
BSD1	77.45	78.20							Same as the interval 72.8-73.25. Sp, Gal, Cpy, Py at 78.8. Contact to below is abrupt but gradational	
BSD1	78.20	94.00							Minorly variable. Mid to dark grey groundmass with black/ green blotches/ lenses of chlorite?. Qtz phenos to 4mm. Occassionally tightly packed and occasionally not abundant. Pervasive disseminated/ blotchy Py occasional following a fabric. Fabric at approx 30,35,40,45d TCA.at72.8, on edge of the contact v minor Gal, S in erratic diffuse Py bands to 3mm. At 83.7, band 35mm thick Py, Sp, Mag. Occasional/ rare milky/ light green feld seen. Abrupt but gradational to	
BSD1	94.00	94.50							Light grey, sericite?, groundmass with tightly packed qtz phenos to 6mm, minor disseminated/ blebby py. Clots of disseminated Mag? to 1mm, not magnetic though, Sp? Core gets lighter DH. Same as overall rock, bleached. Abrupt to	
BSD1	94.50	94.70							Similar to76.7-77.4 except only minor Py and Mag. Mainly chlorite, minor epidote, qtz vein material, possible pinkisk k spar to 3mm, minor fuchsite. Qtz phenos visible throughout and a visible spectrum of unaltered wall rock to altered. Abrupt but gradational to	
BSD1	94.70	117.05							Minoly variable. Overall a dark grey rock with whote spots. Groundmass ranges from mid grey to dark grey, with fine black, chlorite? blotches/ lenses helping to define a fabric where there is one. White s[pota are qtz phenos to 5mm variably packed. Occasional/ rare milky/ light green feld seen. Minor fine pink spots to 1mm, leucoxene? Qtz vein, 107.9, 30mm thick, perp TCA, 110.9, 30mm thick, perp TCA, 115.15, 2 x 10mm thick, opposite directions at 45d TCA. Qtz veins have coarse euhedral Py, chlorite and minor fuchsite. Minor bleaching pervading from veins. Variably minorly magnetic. Pervasive disseminated/ blotchy Py. Fabric is variable from 45d to parallel TCA.	