

Frontier Resources Detailed Drill Log									
	Hole Number		BSD2	Sheet No	1	Mineralisation / Alteration		Full description	
HOLE_ID	INTERVAL	ROCK CODES		Alteration summary					
	FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	
BSD2	0.00	1.10							Begins as dark brown soil with organics to 0.3 and moves to a dark/ mid orange/ brown clays . Contains mildly weathered porphyry clasts to 30mm. Becomes coherent orange, green clays, saprolite by the end of the interval
BSD2	1.10	2.70							Clays, saprolite, weathered rock clasts. Orange, green clays mixed with coherent clays and mildly weathered rock clasts. Contact to below is abrupt.
BSD2	2.70	7.15							dark to light grey, burnt orange, variably white/cream. Qtz, feld, porphyry. Qtz phenos to 3mm as are cream/ light green feldspar, irregularly shaped. Never tightly packed as in BSD1. Some zones phenos are minor/ moderate compared to others. Sometimes feld riming qtz. Groundmass is dark grey/ black ans aphanitic, biotite? This interval is magnetic, blebby mag ti 1mm, not over oc, leached zones. Xenoliths to 25mm, whitish, may contain chlorite, mag, py. 60% of the porphyry is normal with no outstanding features. The rest shows more of a conc of xenos, breccia/ shear texture and is generally a little more altered. The total interval is is variably pyritised and ox py. Where the porp is more altered the py is finely dissem, where the porph is normal the py is more blebby to 2mm. At 3.6-4, sericite/ clay, py, at 5.1, 30mm thick, 40d TCA and other minor zones. Fabric, 35, 40d TCA. Diffuse to
BSD2	7.15	7.95							Light/ mid grey, same as the rock above in the more altered zones. Contains abundant finely dissem py and blebby mag to 1mm. Xenoliths to 15mm, qtz phenos to 3mm. Matrix is now a light greyclay/ sericite, coherent but easily broken by hand. Abrupt to
BSD2	7.95	11.70							Light grey, mid grey, burnt orange, heavily fractured to rubbly, altered qtz, feld? Porphyry. Moderately, variably oxidised, minor leaching. Start of interval to 9.5, light grey sericite/ clay with qtz phenos and zones of conc xenos to 15mm, fabric 25d TCA. Some haematite staining. V minor blotchy/ dissem py an blotchy mag. Rock becomes darker grey with iron staining, zones of sericite/ clay alt. Qtz vein at 9.2, 10 mm thick 60 d TCA. V minor py remain, mostly ox. Fabric at 25d TCA. Rubbly at 10,11,11.7. Diffuse to
BSD2	11.70	15.00							Mid to dark grey, burnt orange, cream/ white, moderately fractured, with occasional rubble zones, minor oxidation becoming less DH. Qtz, feld porphyry, xenoliths to 12mm and alteration spots? similar to xenos?? With minor spots of fuchsite with in FeO staining on all fractures. Fabric at 45d TCA. At 13.65 minor shear zone partitioned into 20 wide zone, zone is 45d TCA, within that zone 10d TCA. Minor zone of sericite/ clay at 13.9, 30d TCA. Fabric being partially defined by black lenses of chlorite. Minor py over interval. Diffuse to
BSD2	15.00	19.00							Mid to light grey, orange, cream/ grey, same as the rock above, overall just a lighter grey, more sericite/ clay? Occasional xenos to 20mm. Black spots and lenses of chlorite. Varibly blotchy py, minor to locally moderate. Some zones all py ox and vugs remain with FeO staining. Fabric at 20, 15d TCA. Abrupt to, irregularly
BSD2	19.00	19.90							Light green/ grey, orange, white, light to dark grey, heavily oxidised and moderately/ minor leached in zones. Qtz, feld? Porph heavily sericitise/ clay altered. Rubbly to heavily fractured. At 19.05 -19.15 qtz vein with abundant FeO, previos py, rubbly, ending in a massive incoherent py vein +/- 20mm thick. Fom 19.15-19.4 more intense sericite, fabric 25, 30d TCA, qtz phenos in sericite, FeO and minor blebby py. 19.4-19.55, rubbly, qtz vein and heavily ox porph top green, orange clays. No py only FeO. 19.55-19.9 progressively become les ox moving back to unalt porph. at 19.9, qtz vein, 10mm thick, 60d TCA partially stoping ox? Abrupt to
BSD2	19.90	28.60							Darr grey/ black, v minor mid grey, qtz, feld porphyry. Occasional xeno to 12mm, cream/ light green as in all previos intervals. Occasional zones of minor ox but generally fresh. Moderately fractured. 2 zones a little rubbly, 26.6, 27.15. At 22.3 vein, 10mm thick, py, chlorite, 30d TCA. Minor to locally moderate blebby py. Becomes lighter grey last 0.6 of interval
BSD2	28.60	31.20							Qtz veining, shattered, sericitised/ clay alt qtz porph, alternating. Qtz veining at 28.7, 0.1 thick, shattered, 35d TCA, FeO, chlorite, 29.3, 0.1 thick, shattered, 29.8-30.4, shattered, rubbly and incoherent, possible fault zone with abundant clay/ pug. After 30.5 becomes more coherent light grey with minor/ moderate blebby py. Fabric 20d TCA. Over the interval abundant FeO. Heavily ox and moderate leaching. Qtz tensional vein at 30.6, 45d TCA, 6mm thick. Diffuse to
BSD2	31.20	33.35							Light/ mid grey qtz porphyry with moderate sericite/ clay alt. Moderate/ abundant fine dissem py and minor blebby py. Qtz vein at 31.7 and 31.25, with abundant fine to coarse py and chlorite, possibly what the previos interval may have looked like if not so ox and shattered. Both have minor fine grained euhedral black/ brown sphalerite. At 32.5, qtz vein, shattered, FeO, sericite, 45mm thick, heavily ox, vuggy, some euhedral py fill
BSD2	33.35	36.15							Similar as above just minor py though. Non mag but minor blotches of mag? to 1mm. Increases in sericite/ clay in last 0.1 of interval. Abrupt to, irregular
BSD2	36.15	36.25							Qtz vein, rubbly, fractured, barren.
BSD2	36.25	40.35							(NB:new logger) quartz feldspar biotite porphyry (as for the rest of the hole above 36.15m). Quartz phenocrysts to 2mm ~10% generally distinct occasionally murkily hidden in darker groundmass. Feldspars less readily visible but ~0.5mm to 1mm. Weak but consistent fabric at ~15 degrees to core axis as anastomising ~2mm spaced cleavage?. Light greenish and light olive greys due to leaching and bleaching associated with limonite coated joint surfaces at ~70 degrees to core axis an ~8/m. Also limonite coated fractures at low angles to core axis. Minor pyrite to 1% throughout, locally to 2-3%, occurs in irregular belts, disseminations and trails in the fabric.
BSD2	40.35	66.85							dark greenish grey quartz feldspar biotite porphyry. Continuation of unit uphole but now fresh and coherent core. Generally consistent weak fabric throughout at 15 degrees to core axis in fine anastomosing form like 2mm spaced cleavage. Minor pyrite throughout with ~1% overall and up to 3% locally over 0.1m. Some trace sphalerite and galena. Occasional quartz veins between 59.9m and 64.4m at moderate/high angles to core axis to 100mm thick and variable chloritic selvages. No significant alteration - in places feldspars have a very light lemony green colour. Major core loss - cavity between 56.9m and 58.65m.
BSD2	66.85								END OF HOLE - Hole terminated as rig was beginning to reach its capacity given the angle of the hole and the broken core uphole. The 3D IP chargeability high had not been quite pierced by the hole but thee is no increase in alteration or sulphide content towards the end of the hole.