Frontier Resources Detailed Drill Log

Hole Number		NC 62	Sheet No	1	Mineralisation / Alteration and s	

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	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
NC 62	0.00	0.80		SSAND	HORN			I	Burnt orange to red soil with abundant roots and rock chips. Rock chips are oxidised, are a spotty black in a matrix of red. Biotite hornfels, qtz, FeOH.
NC 62	0.80	1.10		SSAND	HORN			I	Brown/ orange sand, grains to 3mm, but mostly medium. Rock chips are sandstone with minor biotite hornfels? Abrupt to
NC 62	1.10	5.45		QTZFPORP	SER	OX		M	Yellow, cream/ yellow, variably oxidised and leached, qtz minor feldspar porphyry. Qtz phenos to3mm and previous feldspar, now a lemony/ green sericite also to 3mm. To 1.3 is soft semi coherent clays/ sericite matrix, yellowy, orange, containing qtz phenos. 1.3-3 minor oxidation and leaching, overall coherent rock but heavily jointed. To 2.3 the matrix is yellow and to 3 grey. Sericite has been removed and now voids are partially filled with fine qtz? FeOH, mica. 3-5.45 matrix is soft and semi coherent clays/ sericite containing qtz phenos and minor lemony/ green sericite after feldspar. Matrix is light yellow to orange/ yellow. Diffuse to
NC 62	5.45	6.00		SSAND	SER			M	Parallel contact. Yellow to white clay matrix containing qtz phenos and sericite lathes, irregularly contacting with a medium sandstone. Sandstone is dark grey to orange to cream and is variably silicified and variably mildly biotised. The contact is more or less parallel. Abrupt to
NC 62	6.00	6.40		SSAND	SIL	HORN		W	Sandstone same as above. Orange, cream, grey, variably silicified, oxidised and mildly biotised. Fractures coated in FeOH. Abrupt to
NC 62	6.40	7.00		SSAND	SER			M	Same as 5.45-6. Irregular contact zone. Approx parallel TCA. Diffuse to
NC 62	7.00	7.15		QTZFPORP	SER			S	White, white/ yellow coherent clay containing qtz phenos to 3mm and lathes of sericite after feldspar to 2mm. Possibly minor fine grained biotite. Minor grey tinge through matrix. FeOH pervading from fractures and increases DH. Contact to below is abrupt and at approx 75d TCA
NC 62	7.15	7.60		SSAND					Dark grey to light grey, orange medium to coarse, poorly sorted sandstone. Variably lightly silicified. Intensely biotised at 7.15 and decreases DH to very light. FeOH interstitial to the qtz grains and forms irregular patterns through the biotite. Chaotic. Abrupt to and contact at 30d TCA
NC 62	7.60	8.80		QTZFPORP	SER				White coherent clay containing qtz phenos to 3mm and minor sericite lathes to 2mm. V minor fine grained biotite. Matrix becomes more yellowy/ orange DH to 8.5 then becomes a light yellow. Sericite alteration front into next interval. Abrupt but diffuse to
NC 62	8.80	9.60		QTZFPORP	SER	OX			green/ grey matrix containing qtz phenos to 3mm. Also voids that would once have contained feldspar? To sericite now contain minor FeOH or remain as voids. The rock is coherent and fresh. Minor sericite alteration front at 9.2, 30mm pervading from fracture. Joints at 45d TCA. Abrupt to
NC 62	9.60	10.35		QTZFPORP	SER	OX			Orange, lemony/ yellow, cream/ white, clay/ sericite matrix containing qtz phenos to 6mm and sericite lathes. Heavily jointed to rubbly. Oxidised and leached. FeOH up to 5mm on some joint surfaces, 20,40d TCA. Abrupt to

HOLE_ID	Pyrite		Galena		Sphalerite		Biotite		Silica		Sericite		Chlorite		(Ca)CO3		Calc-Sil		Skarn		Magnetic		QVN	Other minerals / texture / colour							
	Sty/le	Amount %	Sty/le	Amount %	Sty/le	Amount %	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Sty/le	Amount (WMS)	Amount (WMS)	Mineral 1	Sty/le	Amount %	Mineral 2	Sty/le	Amount %	Broken (WMS)	Colour
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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	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
NC 62	10.35	10.70		QTZPORP	SER				Medium to dark grey, darkening DH matrix with qtz phenos to 3mm. Grey is possibly coming from increasing biotite in the matrix. Matrix is fine but coarser than previous. Minor voids. Minor wispy sericite? At 10.5 through matrix. Pyrite is found at start of interval as void fill and surrounding voids. Pyrrhotite minor is also found at the end of the interval with v minor chalco and galena? Abrupt to
NC 62	10.70	10.75		FALT	CH				Chlorite, dark green, no slip planes visible, Fault? Probably. Abrupt to
NC 62	10.75	13.35		SSAND	HORN	CH			Light grey, orange, grey/ green medium sandstone. Patchy, lightly biotised, wispy and erratic. Minor moly at 12.2. Abundant dendritic and blotchy pyrite at 12. Partial fabric at 12.5, shearing? 45d TCA Mixture of textures and rock types, not homogenous. Oxidised zone just above 12.6. Joints at 35,45d TCA. Pyrite becomes abundant in last 100mm as disseminations and blotches. Chlorite also increases. Abrupt to
NC 62	13.35	13.70		FALT	CH				Chlorite, dark green. Slip surfaces at 10,45d TCA. First 100mm is pyritic. Fault
NC 62	13.70	15.50		SSAND	OX			M	Orange, white/ yellow, murky dark brown medium sandstone. Variably leached and oxidised. Heavily fractured but coherent to rubbly. From 13.7-13.9 rubbly and puggy. Fault?. 15.2 rubbly qtz vein fault?. After 15.2 becomes rich in FeOH after sulphides? Abrupt but diffuse to
NC 62	15.50	15.55		SSAND	CH				Chlorite, dark green, mixed with sandstone
NC 62	15.55	17.00		SSAND	CSP				White , light green, minor pink rock. Previously a coarse, to 3mm sand in a matrix of silt. Now qtz clasts in a matrix of fine grained green, cream, pink calc silicates, garnet? Some zones have no coarse qtz and are instead a fine grained version. Vein at 16.8, 10mm wide, qtz, pink mineral, kspar?, minor moly 20d TCA. Abrupt to
NC 62	17.00	17.80		SSAND	CSP			M	Orange, orange/ yellow, gritty coarse to medium grained oxidised and leached sandstone. Rubbly and puggy at 17.4. Fault. 17.7 shows very minor unoxidised calc silicates. Abrupt to
NC 62	17.80	21.00		SSAND	CALS	CH			Light to medium green, yellow/ light green, minor pink, cream calc silicates. Some minor zones of coarse qtz clasts to 2mm in a matrix of variable cream, cream/ green calc silicates. Constantly varying mineralogy and textures. Chlorite, garnet, v minor epidote? generally fine grained. 18.6 a little pug and rubble, minor fault?. Abrupt to , 15d TCA
NC 62	21.00	21.50		QTZFPORP	SER				Light to dark grey, spotty of varying greys and minor cream, qtz porphyry. Qtz phenos to 3mm, previous feldspar alt to sericite. 1 diffuse vein with black biotite. Other minor veins to 3mm qtz, feldspar, sericite with minor biotite. Abrupt to
NC 62	21.50	21.85		SSAND	HORN	CALS			Dark grey, medium green, cream, pink partially oxidised and leached, biotite and calc silicate rock. Very irregular, with textures and mineralogy changing rapidly. Seems to be a dark grey biotite zone surrounding the contact zone to the qtz porphyry below. Surrounding zone is also silicified, minor dissem and blotchy pyrite. Pug at 21.6, minor fault?. Abrupt to

HOLE_ID	Pyrite		Galena		Sphalerite		Biotite		Silica		Sericite		Chlorite		(Ca)CO3		Calc-Sil		Skarn		Magnetic		QVN	Other minerals / texture / colour							
	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
NC 62	Spt		D																					PO			CPY				
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NC 62	21.85	26.85		QTZPORP	SER				Qtz phenos to 3mm are visible and are evenly distributed. Sericite after feldspar is rarely seen, now rarely voids, most commonly in filled with fine qtz?, mica. Overall the rock gets darker DH. Sericitisation of the groundmass, yellowing, 22.5,23.8,24.6. Rock is well jointed at approx 45d TCA and rubbly in sections. Rare sulphides, pyrite, at start of interval, progressively become minor but consistent. Pyrite as disseminations and fracture fill. Pyrrhotite and chalco also very minor but consistent, some times associated together, occasional galena. Slight increase DH. V minor fluorite. A rare black brown mineral, sphalerite?. Abrupt to 80d TCA
NC 62	26.85	27.60		SSAND	HORN	CALS			Overall a medium green to green/ grey rock. Fine grained, when broken visible biotite to 1mm within a fine green matrix, calc silicate in a fine sand? Dark green veinlets, chlorite? Variable 30d TCA. Abrupt but diffuse to
NC 62	27.60	30.90		SSAND	HORN				Light brown to mid brown, grey medium grained sandstone, lightly to moderately biotised.
NC 62	30.90	32.70		SSAND	HORN	CH			Light to mid brown, mid green sandstone, lightly to moderately biotised. Occasional zones to 50mm of leached yellow sandstone. Moderately fractured at 32.1. A chloritised zone pervading from a qtz vein, 10d TCA, 20mm thick. Diffuse to
NC 62	32.70	33.30		SSAND	HORN	SKARN			moderately to intensely biotised, minor skarn, pyroxene?. Minor pyrite, pyrrhotite as disseminations and blotches. Coarser biotite pervading from fractures. Diffuse to
NC 62	33.30	36.90		SSAND	HORN				decreasing DH to a cream/ yellow sandstone. Moderately fractured and jointed, 30d TCA. Rubbly area from 36.15-36.7. Minor qtz veining of varying orientations to 15mm thick. 1 major vein at 33.6 contains a couple of spots of moly
NC 62	36.90	37.00		FALT					Fault? Black pug. Core loss in this area
NC 62	37.00	37.30		SSAND	HORN				same as 33-36.9
NC 62	37.30	38.15		SSAND	HORN				Black to grey sandstone moderately, patchy biotised decreasing DH to a leached and gritty cream/ yellow leached sandstone. Irregular leaching patterns. Minor disseminated and blotchy py. Diffuse to
NC 62	38.15	43.65		SSAND	HORN	CALS			medium sandstone, lightly, variably biotised. Every 100mm changes. Most zones are silicified. Minor cream calc silicates wisping through. Many minor qtz veins to 2mm and minor amount to 8mm. Some zones look brecciated and cemented back together. Coarser black biotite is associated with some veins. Joints 30d TCA. Many qtz, chlorite, biotite
NC 62	43.65	44.50		SSILT	HORN				Overall a pink and black, biotite , kspar, minor qtz rock. Biotite to 50% locally and coarse to 6mm. From 43.8-44.05 qtz vein to 30cm thick, approx 25d TCA. Has altered surrounding to a light green mica and no pink kspar. Contact to b elow is approx 90d TCA. Diffuse to abrupt. Cream coloured feldspar infiltrate to 50mm and rapidly increase. Biotite stops abruptly
NC 62	44.50	51.00		GT	SER				A cream, cream/ yellow, cream/ green granite. Approx equigranular. Qtz30%, feldspar 70%, minor biotite, 99% to chlorite. Light sericitisation, greisen. At 44.9,46.1, 46.3, 46.7, 47.15 qtz veins 25d TCA, increasing biotite, mica surrounding? Abrupt but diffuse to
NC 62	51.00	51.50		QTZPORP					Dark to light grey overall, orange, light green/ silverish, qtz, light green mica, orange clay, minor lighter orange, some translucent and no crystal form is seen, feldspar , minor sericite, minor biotite. Qtz vein at 51.3, approx 20d TCA. Contact to below 25d TCA and abrupt

HOLE_ID	Pyrite		Galena		Sphalerite		Biotite		Silica		Sericite		Chlorite		(Ca)CO3		Calc-Sil		Skarn		Magnetic		QVN	Other minerals / texture / colour							
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NC 62	D		D		Spt																			CPY							
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	FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	
NC 62	51.50	52.30		GT	SER	CH			A cream, cream/ yellow, cream/ green granite. Approx equigranular. Qtz30%, feldspar 70%, minor biotite, 99% to chlorite. Light sericitisation, greisen.
NC 62	52.30	54.40		QTZPORP					Dark grey/ green, light grey, light green, orange, qtz, mica, orange clay, minor sericite rock. Variable amounts of minerals but qtz to 70% and coarse in areas. Generally all minerals finely intermixed in a matrix of qtz. Wolframite is found as coarse to 15mm blades at 53, 10cm band, but possibly a zone from 52.8-53.5 but rare/ minor over zone. Moly also found over zone with clots to 3mm and minor disseminations over interval. Minor pyrite over zone and a couple of spots of chalco. Contact to below is 20d TCA diffuse but abrupt to
NC 62	54.40	54.60		GT	SER	CH			A cream, cream/ yellow, cream/ green granite. Approx equigranular. Qtz30%, feldspar 70%, minor biotite, 99% to chlorite. Light sericitisation, greisen.
NC 62	54.60	54.80		QTZPORP					Dark to light grey, light green, orange, qtz, mica, minor orange clays and sericite. All minerals in a matrix of qtz. V minor wolframite and moly. There is an abrupt contact roughly parallel TCA and on the other side of this contact is granite same as the interval above. Abrupt but diffuse to
NC 62	54.80	58.10		GT	SER	CH			A cream, cream/ yellow, cream/ green granite. Approx equigranular. Qtz30%, feldspar 70%, minor biotite, 99% to chlorite. Light sericitisation, greisen.
NC 62	58.10	58.50		QTZPORP					Dark to light grey, light green, orange, qtz, mica, minor orange clays and sericite. All minerals in a matrix of qtz. V minor moly. Abrupt but diffuse to
NC 62	58.50	60.70		GT	SER	CH			A cream, cream/ yellow, cream/ green granite. Approx equigranular. Qtz30%, feldspar 70%, minor biotite, 99% to chlorite. Light sericitisation, greisen.
NC 62	EOH								

HOLE_ID	Pyrite		Galena		Sphalerite		Biotite		Silica		Sericite		Chlorite		(Ca)CO3		Calc-Sil		Skarn		Magnetic		QVN	Other minerals / texture / colour						
	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
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