

Hole number: DDH-06-07Date drilled: Sept 16 - 22Page 1 of 12Logged by: M. SchultzDate logged: Sept 19-25

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
0	6.09	casing						
6.09	58.22	<ul style="list-style-type: none"> <li>massive, leucocratic bt syeno to monzogmatic → WCI granite</li> <li>moderate to strong potassic alteration throughout, rare greenish clay alt on free surfaces               <ul style="list-style-type: none"> <li>↳ varying from &lt;5mm penetration from fractures to pervasive alt</li> </ul> </li> <li>core is extremely shattered throughout pieces avg. &lt;1 to 4cm, sig mech. reduction</li> <li>where core is unaltered is tan to light grey, bt always &lt;5%</li> <li>bt is unaltered to weakly chloritized</li> <li>measurable fracs are most common @ ~ 30° and 60° TCA</li> </ul>						
	6.09-22.50	<ul style="list-style-type: none"> <li>weak potassic alteration, oxidized and limonitic free surfaces, fill &lt;1mm, core coloured cream &amp; rusty brown</li> <li>fracs are both regular @ ≥ 30°, rare low &lt; 30° TCA</li> <li>core pieces angular, avg. 2 to 10cm, intact core to 20cm</li> </ul>		weak potassic oxidized	nil	15.24	17.98	397521
	22.50-58.22	<ul style="list-style-type: none"> <li>mod. to strong potassic alt with only rare light green clay fills &lt;1mm</li> <li>possibly some clay alt, bulk of clay or f.g. material is mostly mechanical reduction</li> <li>bt avg. 3-5% up to 8%</li> <li>core pieces avg. 4cm to &lt;1cm, increase in competence in final 3m</li> <li>general core colour is cream/grey and pink (potassic alt)               <ul style="list-style-type: none"> <li>↳ a greenish hue throughout suggest some chloritization</li> </ul> </li> <li>reddish mineral occurring in black/green clots               <ul style="list-style-type: none"> <li>↳ oxidized bt?</li> </ul> </li> <li>tr. tr. tr. sulphide (py) → 2 &lt; 0.5mm speck seen</li> <li>qtz veins @ 41.76m</li> <li>sig. gauge @ 46.63</li> <li>fractures when measurable avg. 55°</li> </ul>		mod. to strong potassic		27.74	29.57	397522
					v.v. tr py	41.76	43.28	397523

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 2 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
58.22	73.50	• heterogenous package of bt rich to bt poor / near quartzite and carbonates • pyrite mineralization to 8%, generally restricted to bt rich zones • disseminated and diss. clots to 6mm, avg 5% • well fol'd in bt rich zones, 70° to b. TCA, fol'n occasionally convolute • open spaces with crystalline calcite growing, up to 3cm • carbonate fill on some fracture surfaces, occasional carb veins			adj. Wt	57.00	59.22	524
				weak to none	avg. 5% to 8%	58.22	60.05	525
					py	60.05	62.18	526
73.50	79.04	• massive, leucocratic WCI granite • some potassic alt around fracs, to more pervasive alt with depth • to py min • contacts not visible, likely sharp • 56cm fol'd bt grano (mixed?) @ 75.00 • 24cm " " @ 75.89 • 1cm clay gouge fill @ 76.22		mod. potassic				
79.04	89.50	• well fol'd musc bt grano • bt is primary to 10%, musc likely secondary • fol'n consistent @ 50° TCA, fol'n less visible in c.g. zones • 11cm leuco aplitic dyke @ 82.28 • possibly a metased but contains one f.g. xeno with a lower contact that x-cuts fol'n • diss. py avg. 3-5%	50° fol'n	fericlitic	3% py	79.04	81.38	527
						86.87	89.50	528
89.50	93.89	• leucocratic bt granite to 92.35 → ~40cm qtz ↳ lower part of interval is pink → strong potassic alt → syenogranite • c.g. musc growing on regular fracs and within mastomosing veins at the qtz / potassic						

82.27

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 3 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
93.89	100.20	• sericitically altered ECI, weak silicic • well fol'd consistent @ 65 to 80° TCA • 10cm aplite dyke @ 97.00 m, 45cm aplite dyke @ 99.22 m • 8cm reduction/gouge @ 99.12 • pyrite diss. avg. 2% to 4%, better or least alt. zones	65 to 80 fol'n	sericitic	py. avg. 2%			
100.20	124.66	• well fol'd bt grono ± hbl (restricted) ± alt musc, mg • interval is moderately heterogeneous containing, e.g. to e.g. material, aplite dykes, variable alt (only sericitic) and zones with hbl • predominantly mg. bt grono, unaltered				100.20	102.72	397529
	100.20 - 113.34	• well fol'd bt grono ± hbl + grt, avg. 5-10% bt • occasionally fig. bt rich rafts (one ~ 25cm), py. to 8% • hbl is restricted and may be exsolv (rafts) of hbl grono, hbl rich zones can contain up to 20% hbl • py is diss. throughout avg. 3% with patchy zones, < 2cm, up to 10% py • weak potassic alt from ~ 110 to 112.50	fol'ng. 70°	patchy weak potassic	avg. 3% up to 10% in zones	105.77	107.76	397530
						108.81	110.64	397531
	113.34 - 114.07	• massive leucogranite						
	114.07 - 124.66	• variably altered bt grono, alteration is predominantly sericitic with minor chloritization, some hematite on fracture surfaces • rock is moderately fol'd (mostly due to lack of orient. min) • reduction in core competence towards base of interval in assoc. rubble and gouge (4cm @ 124.19) • py diss. throughout avg. 4%, up to 10%	fol'n to to 70°	sericitic patchy	avg. 4% up to 10%	113.69	116.74	397532
						117.96	119.48	397533
						119.48	124.31	397534
						122.22	124.66	397535

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Logged by: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Date logged: \_\_\_\_\_

Page 4 of 12

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
124.66	124.91	• sericitic fault gouge → mud / sand • py diss to 5%		mech sericitic	avg. 3%	124.66	126.94	397536
124.91	128.94	• well fol'd bt gneiss with musc qtz aplitic dykes +/- grt ↳ 3 sections 20-30 cm • fol'n consistent @ 70° TCA • pyrite diss. throughout 3%, 1% in aplites, one zone ~10cm with 15%	70° fol'd	sericitic	py diss. to 3% patchy clots	126.94	129.54	397537
128.94	134.06	• mod. to well fol'd bt gneiss with variable weak to intense sericitic alt • fol'n avg. 70° to 6 TCA • some rare leucocratic zones with ↓ py • fault gouge @ 132.90 for 30 cm → pebbles to sand • minor clay epidote stringers	70° fol'd	sericitic weak to strong	py to 2%	129.54	131.67	397538
134.06	134.54	• leucocratic bt granite dyke • chloritized bt				131.67	133.20	397539
134.54	140.18	• heterogeneous interval with leuco bt gneiss (bt < 5%) bt gneiss (bt to 15%) and leuco aplitic dykes • rare weak sericitic alt • fr. diss py throughout • fault gouge @ 138.15 in qtz → 2cm and @ 139.90 for 3cm			fr py	135.03	136.55	397540
140.18	265.93	• well fol'd bt gneiss +/- patchy hbl rich zones • predominantly unaltered, rare diss. hematite alt (single crystal diss alt) • well fol'd throughout with the exception of aplitic dykes ↳ hbl can be more randomly oriented → possibly an alt product • fol'n consistent throughout, 6 to 70° TCA in places • qtz veins throughout avg. 1-2cm up to 30cm ↳ difficult to distinguish from musc bearing aplite intrusions				136.55	139.29	397541
						139.29	140.18	397542
						140.18	142.34	397543
						142.34	145.39	397544
						145.39	148.44	397545
						148.44	151.49	397546
						151.49	154.53	397547
						154.53	157.58	397548
						157.58	160.63	397549

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## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 5 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		140.18 - 155.92 • fairly homogeneous hbl bt grano. interval						
		• bt to 15% hbl to 5%, hbl commonly chloritized	avg	possible amphibole	py. avg. 3%			
		• interval contains the patchy crystal potassic alt	↳ TCA	alt, chlor	mass tr cpy			
		• 45cm grt bt optite @ 147.15		at hbl				
		• py diss avg. 3% with some frac controlled ↑ py to 10%						
		• first sign of v. tr cpy						
		155.92 - 156.97 • leuco musc optite dyke, unmineralized						
		156.97 - 163.50 • mixed interval with bt grano, bt hbl grano + grt musc optite	avg					
		• 2 optites → 20cm @ 158cm	↳ TCA		py avg. 2%	160.63	163.68	397550
		• diss py avg. 2%, up to 8% for <2cm assoc. with fracs			v. tr cpy			
		• possible tr. cpy						
		163.50 - 171.50 • well fol'd hbl bt grano						
		• interval starts with 26cm musc optite ore grading followed				163.68	166.73	397551
		by a 11cm, optite carbonate vein				166.73	169.77	397552
		• x-cutting optite vein @ 165.40	fol. avg			169.77	172.82	397553
		• 20cm magnetite rich zone @ 167m → ↑ py	80°		py. avg. 3%			
		• patchy epidatization feldspars (not affect mafic min)			v. tr cpy			
		• py diss throughout to 3%, patchy clots, v. tr cpy						
		171.50 - 172.82 • leucocratic musc optite → unmineralized						
		172.82 - 181.27 • homogeneous interval well fol'd bt grano + grt	80° to			172.82	175.87	397554
		• unaltered → rare disseminated hematite	↳			175.87	178.92	397555
		• diss py avg. 1%, rare clots				178.92	181.97	397556

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Logged by: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Date logged: \_\_\_\_\_

Page 6 of 12

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		181.27 - 186.75 • heterogeneous interval f.g. sericitically alt bt grano, rare aplitic dykes, qtz veins and hbl rich intervals				181.97	185.01	397557
		• 6cm fault gouge @ 181.90	avg. 70°	sericite weak hematite	py. diss to 3%	185.01	188.06	397558
		• weak hematitic alt. @ start of interval						
		• rare carbonate veinlets both // and x-cutting						
		• 183.09 → 17cm aplite						
		• py diss. to 3% clotty patches						
		186.75 - 196.39 • heterogeneous interval containing bt grano and bt hbl grano				188.06	191.11	397559
		↳ bt hbl grano > bt grano		chloritization of hbl	py to 2% tr cpx	191.11	194.16	397560
		• carbonate veins, pinkish hue, < 2cm	avg. h			194.16	197.21	397561
		• mod to well fol'd, avg. to TCA						
		• 193.25 - 193.87 → bull qtz vein, unmin						
		• 195.70 → 15cm qtz vein, shouldered 2cm massive grmk						
		↳ within and near adj contains pyrh						
		• py diss. to 2% tr cpx						
		196.38 - 199.96 • mod fol'd bt hbl grano				197.21	200.25	397562
		• patchy weak potassic alt and carbonate veinlets		weak potassic	2% py			
		• py diss. tr to 2% some fine cont clotty zones to 8%						
		199.96 - 203.90 • mod fol'd bt hbl grano						
		• contains several pinkish carbonate veinlets avg. < 1cm			diss. py < 1%	200.25	203.30	397563
		• carb veinlet and assoc. ↑ py				203.30	206.35	397564
		203.90 - 204.47 • low < TCA fault zone, sericitic alt, sand to mud gauge		sericitic + mechanical	4%			
		• diss. py to 4%						

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		204.47-210.52 • homogeneous, mod. fol'd bt gono • weak chloritic alt near base of interval, hematite at 205.65 for 7cm, rare carb veins • py disseminated throughout, 3%, diss is starting to get coarser with blebs commonly to 3mm				206.35	209.40	397565
			80° fol'n	weak chlor, rare hem	py to 3% getting coarser	209.40	212.45	397566
						212.45	215.49	397567
						215.49	218.54	397568
						218.54	221.59	397569
						221.59	224.64	397570
		210.52-212.65 • same as above. W stronger chloritic alteration		strong chlor	py to 4%	224.64	227.69	397571
						227.69	230.73	397572
		212.65-215.40 • well fol'd bt gono • internal contains small vugs to 2mm • Py min ↑ and coarser with blebs avg. 3mm • 10 cm qtz vein at 214.83			py to 5%	230.73	233.78	397573
						233.78	236.83	397574
						236.83	239.88	397575
						239.88	240.81	397576
		215.40-232.73 • fairly homogeneous bt gono +/- hbl +/- grt • rare vuggy zones, vugs < 2mm • some variation from mg. to fg. gono • rare carb stringers • rare potassic/hematitic? alt • Py avg. 2%, some zones < 3um to 8%	avg. 70° fol'n	weak hem? generally unaltered	Py avg. 2%			
		232.73-240.81 • siliceous + sericitically alt FCT, variable → Interval is predominantly strongly silicified altered • carbonate on fracture surfaces • py min tied to degree of alt → py restricted to ↑ bt or alt • 10 cm fault gouge @ 239.10 → sericite + carb		siliceous sericitic	py. tr to 2%			

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 8 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		240.81 - 242.93 • hbl bt gneiss / schist?				240.81	242.93	397577
		• chloritized throughout → mostly hbl??	variable	chloritized				
		* • cross-cutting and fol'n carbonate veinlets and matrix carbonate		carbonate veins and in matrix	py blebby to 3%			
		* • variable to convolute fol'n						
		* • rock is generally becoming more mafic (>40% mafics)						
		242.93 - 247.51 • variably fol'd hbl bt gneiss	variable	chloritized		242.93	243.90	397578
		• chloritized throughout, no carbonate			py patchy	243.90	244.40	397579
		• pyrite is blebby and patchy, blebs to 1cm			avg 5%	244.40	245.97	397580
		• 243.90 - 244.40 contains abundant pyrite approaching massive and irregular blebs of cpy 0.5cm to 1cm			cpy 0.5% over 50cm	245.97	247.51	397581
		↳ likely 0.5% over 50cm						
		247.51 - 250.37 • silicically alt. ECT, zones approaching pure quartzite		silicose	py tr	247.51	250.37	397582
		↳ as well as sericitic						
		• tr. diss py						
		250.37 - 255.20 • fairly homogeneous hbl bt gneiss +/- gnt				250.37	252.07	397583
		• well fol'd somewhat variable			diss. py to 2%	252.07	255.20	397584
		• x-cutting carbonate veinlets			tr cpy			
		• diss. py and tr cpy						
		255.20 - 256.04 • f.g., v. well fol'd bt schist	60° Ah			255.20	256.04	397585
		• dirty qtz veins						
		256.04 - 257.73 • well fol'd m.g. hbl bt gneiss	60° Ah	chloritized	diss. py to 3% tr cpy	256.04	257.73	397586
		• diss. py. to 2%, tr cpy						
		• minor mech. alt (Analt) @ 257.20						



## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 9 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		257.73 - 261.90 • f.g. grt hbl bt grano to schist • gradational from silice ↑ at top of interval to only chloritization at base • minor qtz veining	fol. 80°	silice to chlor	dis. py 2%	257.73	261.90	397587
		261.90 - 263.96 • broken interval pieces from 1cm to 7cm ↳ abrupt change in competence → term. in fault • coarse blebbly py and pyrh min. ↳ blebs > 1cm, combined py & pyrh to 10% • one 6mm cpy/bleb observed • rare spotty horn		chlor a carb tr horn - mechs	dis py & pyrh comb to 10% tr cpy	261.90	263.96	397588
		263.96 - 265.93 • well fol'd hbl bt schist/grano +/- grt • fol'n somewhat variable avg. 70° TCA • chloritized, rare qtz veining/blebs • py coarser (2-3mm) diss. to 1%, tr cpy	60° fol'n	chlor	py 1% tr cpy	263.96	265.93	397589
265.93	267.00	• homogeneous grt amphibolite, m.g., ~10% grt, • upper and lower contacts are gradational into more schistose material ↳ flow? dyke? • well fol'd, 30° TCA • moderately magnetic • py diss. to 1%, 1cm near massive py vein towards end of interval	30° fol'n	*	py 1%	265.93	267.00	397590
267.00	280.07	• grt hbl bt schist • homogeneous through interval, well fol'd, mostly consistent, some more convolute folded sections • minor qtz and qtz/carb veins avg. < 1cm • py diss. throughout avg. 2-4%, blebs to euhedral crystals, • variably chloritized avg. < 1 to 4mm		chlor		267.00	270.05	397591
						270.05	272.50	397592

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 10 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
		267.00 - 272.50 • grt hbl bt schist • fol'n avg. 70° ~ 30% convolute folding • py. blebby and coarse (avg. 4 mm)	70° fol'n	chlor	py. avg. 3%			
		272.50 - 277.75 • grt hbl bt schist • fol'n variable from h. to low d., well fol'd • generally ↓ py. due to blebby and clotty, avg. 1-2% • more carb veins, chloritized	variable	chlor	py. avg. 1%	272.50	273.10	397593
						273.10	276.15	397594
						276.15	277.75	397595
		277.75 - 280.07 • grt hbl bt schist • contains matrix carb and abundant carb veins, x-cutting • larger grt • only tr to no py	variable	carb	tr py	277.75	280.07	397596
280.07	282.30	QTZ - Searle phl Schist (Grt?) • green to gray, well fol. consistent • Searle dth? • some large garnet at start of interval up to 4mm • weak pyrite to 0.1%	70° fol'		py to 0.1%	280.07	281.90	397597
						281.90	282.30	397598
		281.90 - 282.30 Po to 735% strongly weathered almost margin. Sharp upper + lower contact			pyhr & py combined to > 50%, tr py			
282.30	286.47	• f.g. to m.g. well fol'd bt schist +/- grt (sections to 10% grt) • chloritized throughout, carb is black to green, little white qtz and rare v.f. carb veinlets ↓ towards base of interval • smooth greasy (sticks/slide) surfaces are common on breaks • py. min is patchy and where min. is splatky to 4% ↳ to cpy in final 2m of interval	variable avg 67A	chlor weak carb	py. min avg. 2% tr py	282.30	284.57	397599
						284.57	286.47	397600

• 20cm qtz breccia near base of interval, chlorite fill, clast supported  
angular qtz pieces to 2cm

## Copper Ridge Explorations Inc. — Lucky Joe Project — Core Log

Hole number: \_\_\_\_\_

Date drilled: \_\_\_\_\_

Page 11 of 12

Logged by: \_\_\_\_\_

Date logged: \_\_\_\_\_

From:	To:	Description	Angle	Alteration	Mineralization	From:	To:	Sample
286.47	307.41	• homogeneous grt hbl bt schist, m.g.				286.47	288.34	397601
		• well fol'd throughout, gradual variations from 60° to bl TCA	variable		coarse py	288.34	291.39	397602
		• rare grt veins or grt clob, v. rare carb veinlets near top of interval	60° to	chlor	diss to 4%	291.39	294.44	397603
		• chloritized throughout, core is dk grey / green	bl		tr cpy	294.44	297.48	397604
		• py is diss. throughout, generally coarser 5 to 10 mm fol'n // splashes				297.48	300.53	397605
		↳ avg. 4% through interval, zones < 5m to 10%				300.53	303.58	397606
		• zone of incompetence from ~297 to 297.50 → fault?				303.58	305.55	397607
		• low $\Delta$ to CA // fracturing with light clay fill from ~304 to 304.60				305.55	307.51	397608
		• tr cpy to ~290 m						
		• f.g. green intervals near base of interval (final 1.5 m)						
307.41	314.29	• carbonate / metaseds or carbonate skarn				307.41	308.55	397609
		• f.g. well foliated carbonaceous schist shouldering near clean marble	avg. 45 to 60°	carb → skarn?	tr py	308.55	310.70	397610
		307.41 - 308.55 • carbonaceous chl schist				310.70	312.72	397611
		• consistent 50° TCA fol'n minor convolute sections				312.72	314.29	397612
		• minor diss py along fol'n planes (tr over interval)						
		308.55 - 312.71 • white to greenish marble → clean → v. tr py						
		• v. minor chl schist intervals (< 4% of interval)						
		312.71 - 314.29 • carbonaceous chl schist						
		• fol'd at near massive intervals			py to 0.5%			
		• lighter green than the upper shouldering carb schist interval						
		↳ closer to epidote green						
		• v. f. diss. py.						
314.29	315.77	• well fol'd chl schist similar to above colour grading to more conventional chl colour towards base → no carb	avg. 70°	chlor	py 1%	314.29	315.77	397613
		• diss. py ↑ towards base to 8% py, avg. 1% through interval						

**Logged by:** \_\_\_\_\_

**Date logged:** \_\_\_\_\_

Page 12 of 12

placed  
@  
397521  
|  
→ dup of  
397523  
→ blank  
→ std  
→ blank  
397618  
397521  
~100 sm