

Gallery Resources - Gullbridge Project 2001

DDH - PH-02

License #:	3326	Collar Easting:	2+00 E	Logged by:	VA French /Chad Wells
Property:	Gullbridge - Powderhouse Zone	Collar Northing:	12+20 N	Date:	
		Hole Azimuth:	110 deg.	Start	Aug-08
		Hole Inclination:	45 deg	Finish	Aug-10
		Total Depth:	152.7		

<u>Depth</u> (from)	<u>Depth</u> (to)	<u>Description</u>
		<u>Sediment</u>
	5.18	Medium grey to green, melanocratic in part, occasionally maroon, fine grained to aphanitic, strongly magnetic siliceous sediment. Majority of unit is grey to maroon chert beds containing erratic white quartz veins and patches as well as minor yellow patchy sericite alteration (veinlets) @ 4.2 m. A bedding plane or lineation is observed throughout at ~ 65 deg. t.c.a., consistent with regional stratigraphy. Unit does contains weak epidote and possible fine grained sericite alteration locally. Sulphide mineralization (trace) is observed as fine grained wispy stringer(s) ~.5 m from surface, exclusively pyrite. Core is highly fractured and rubbly, fractures are variable and generally contain chlorite coatings. Lower broken rubbly contact.
		<u>Basalt (Mafic Volcanic/Tuff)</u>
5.18	12.3	Predominantly medium green with a slight brown coloration locally, fine grained, moderately magnetic, slightly variable mafic lithology. Majority of unit is relatively massive homogeneous mafic flow rock with minor regional metamorphic alteration, observed as small veins and patches of silica-epidote-garnet. Some of the metamorphic mineralogy conforms to a weak fabric (local) of ~60-65 deg. t.c.a. The lower part of the unit develops a stronger fabric and brown coloration likely reflecting a tufaceous component to this mafic horizon. No prospective alteration or sulphide mineralization is observed. Minor zones of rubbly broken core adjacent inferred upper and lower contacts. Lower sharp 45-50 deg. contact.
		<u>Mafic Intrusive (Gabbro)</u>
12.3	16.1	Medium green to salt in pepper, fine grained, massive and homogeneous, strongly magnetic mafic dike. Unit exhibits .5-1 m chill margin adjacent clean, sharp, upper and lower contacts. Relatively fresh and void of alteration, however, there may be some retrogression of the primary pyroxene to hornblende. No sulphide mineralization. Minor regular 45-50 deg. fractures are observed consistent with contact CA's.

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<u>Depth</u> (from)	<u>(to)</u>	<u>Description</u>
16.1	17.5	<u>Sediment</u> As above, with trace fine grained, disseminated pyrite (1-2%). Broken lower contact.
17.5	26	<u>Gabbro Dike</u> Medium to dark green, predominantly salt and pepper, fine grained, massive, homogeneous mafic flow or dike. Unit appears to have an upper chill margin and a sharp lower contact indicative of an intrusive relationship. This unit is very similar to dike described above except for more broken rubbly core zones and a lighter green coloration towards lower contact. Lower contact @ ~55 deg. t.c.a.
26	27.67	<u>Sediment</u> As above. Sharp clean contacts ~50-55 deg. t.c.a.
27.67	33.6	<u>Gabbro Dike</u> As above. Indeterminable lower contact (zonal).
33.6	37.15	<u>Sediment</u> Medium grey to green, fine grained, laminated (bedded), weakly-moderately magnetic, siliceous sediment. Majority of unit appear to be cherty like with minor brown coloration locally possibly reflecting an argillaceous component. Trace-minor white quartz veins and patches are present typically conforming to the 55-65 deg. foliation plane. Significant sulphide mineralization is observed locally, typically as 10-20 cm patches of heavily disseminated and wispy vein-like sulphide. The stringer like sulphide is predominantly fine grained pyrite, haloed by very fine grained brown-pink pyrrhotite. Minor dark green chlorite alteration is evident throughout especially coating fracture planes. @ 33.94 m: 20 cm semi-massive sulphide patch/lamination dominated by very fine grained brown po containing medium grained (buckshot) pyrite disseminations. Lower sharp, clean contact ~ 50-55 deg. t.c.a. 35.5 m: 40 cm fine grained black mafic dike containing 5, 2-3 cm laminations of fine grained oxide, magnetite-illmenite (moderately magnetic).

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<u>Depth</u> (from)	<u>Depth</u> (to)	<u>Description</u>
37.15	41.5	<u>Gabbro</u> As above. Well developed chill margins and clean abrupt contacts ~50-55 deg. t.c.a.
41.5	49.05	<u>Quartz Chlorite Sericite Schist</u> Light to medium grey, green in part, predominantly fine grained & well foliated, moderately variable schist. Majority of unit is defined by alternating fine (mm-scale) laminae of grey quartz and lesser green chlorite or brown-yellow mica (sericite). Spotted porphyroblastic textures are observed locally defined by 3-8 mm, anhedral, cordierite porphyroblastic apparently overgrown the prominent structural lineation. The cordierite grains are typically dark green due to chloritization, but also are slightly brown or mustard colored presumably reflecting a Fe-carbonate alteration (siderite). The well developed schistosity is for the most part 65-75 deg. t.c.a., but does vary locally with development of small scale parasitic folding. Milky white quartz veins and patches are also observed throughout unit. Minor sulphide mineralization is identified generally as 2-3% fine grained evenly disseminated, fine grained pyrite. The sulphide appears to have no base metal affinity. Mineralization is characteristic of the consistent Fe-rich sulphide mineralization identified within the bimodal stratigraphic unit. Gradational lower contact. 46-47 m: 1 m zone of extremely rubbly broken core, presumably a fault zone.
49.05	52.6	<u>Quartz Chlorite Schist (Cordierite rich)</u> Predominantly grey to green, fine grained, strongly lineated schist. Compared to immediately above majority of unit contains cm-scale of alternating laminae of white to grey quartz and medium green chlorite. The fabric does display local irregularities, generally crenulated zones with obvious parasitic folding, etc. The bottom half of the unit becomes overwhelmed with large, 1-2 cm, porphyroblasts of cordierite similar to that described above. Most of the cordierite mineralogy appears to have dark green chlorite rims haloing mustard colored centers of sideritic alteration. Progressing down hole lithology developed into a very fine grained (finely laminated) sericitic schist overprinted by spotted cordierite porphyroblasts. majority of the structural lineation suggest a relatively high angle fabric ~65 deg. t.c.a. Weak (1-2%) disseminated and stringer pyrite is observed throughout. Unit grades into a less deformed (less ductile) siliceous unit, chert or felsic volcanic.

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<u>Depth</u> (from)	<u>Depth</u> (to)	<u>Description</u>
52.6	55.12	<u>Chert.</u> Medium to dark grey, slightly green-blue in part, aphanitic, hard, siliceous, weakly foliated sediment. Unit is strongly magnetic and relatively massive compared to the encompassing stratigraphy. Distinct grey chert beds can be recognized locally within the more typical melanocratic sediment. 3-5% sulphide mineralization, both disseminated and stringers are observed throughout, generally fine grained pyrite. Thin darker bands or zones are also observed often spatial to sulphide and is likely fine grained magnetite. Considering the strong overall magnetism of the lithology there is likely a degree of Fe₂O₃ formation present. Spotted cordierite rich section are identified @ 54.7 & 55 m. Lower contact is staggered by a 20 cm interval of semi-massive sulphide. 54.86 m: Semi-massive sulphide, predominantly fine to medium grained buckshot pyrite and rare fine grained pyrrhotite. The sulphide enriched interval appears to lie along the contact between less deformed sediment and underlying altered metamorphosed schists.
55.12	68.95	<u>Cordierite-rich Schist</u> Predominantly light grey to white spotted green and yellow, finely laminated, porphyroblastic textured schistose unit. Majority of the unit is defined by a white quartzofeldspathic schist overgrown by abundant (15-20%), 3-8 mm, anhedral porphyroblasts of cordierite. The cordierite is remarkably consistent and evenly concentrated throughout. The porphyroblasts appear to have been chloritized (green) and subsequently carbonate altered to a mustard yellow siderite. The definitive fine grained fabric is typically 65 deg. t.c.a., but does contain common crenulations a small scale folding characteristic of this type of lithology. Anastomosing white quartz veins are common over short intervals, especially down hole @ ~ 65 to lower contact. Minor sulphide is observed throughout, specifically fine grained disseminated, stringer, and laminated pyrite. 2-3% (locally ~5%) euhedral pyrite crystals within a very fine grained pyrite matrix is typical. The pyrite does have a prospective brassy coloration like chalcopyrite but considering its crystalline character is concluded to be oxidized-tarnished pyrite. Core contains minor fractures throughout, generally 60-65 deg. t.c.a., fractures plane contain both chlorite and clay like (kaolinitic) alteration. Lower 60 deg. contact.

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<u>Depth</u>		<u>Description</u>
(from)	(to)	
		<u>Quartz Biotite Sericite Schist</u>
68.95	74.45	Light to medium grey, speckled brown, fine grained, finely laminated, micaceous schist. Majority of unit has definitive mineralogy consisting of light to medium grey silica (quartz) surrounded by fine grained interstitial brown mica, presumably biotite and lesser sericite. The unit is also weakly magnetic possibly reflecting the [presence of fine grained magnetite associated with the interstitial biotite. The minerals are preferentially aligned to a well developed foliation plane @ 65 deg. t.c.a. Minor white quartz veins are observed infiltrating the schist over a few local intervals. Sulphide mineralization is present, generally 1-2% disseminated, fine grained pyrite. No base metal affinity is observed. Minor fracturing throughout, generally ~65-70 deg. CA's. Lower broken rubbly contact (possibly structural), indeterminable trend.
		<u>Mafic Volcanic</u>
74.45	78.94	Medium green, fine grained, massive and homogeneous, weakly magnetic mafic lithology. No prospective alteration or mineralization. 60 deg. contacts.
		<u>Quartz Chlorite Schist</u>
78.94	82.19	As described above.
		<u>Fault Zone</u>
82.19	87.59	Relatively thick interval of highly broken rubbly core, typically mafic volcanic (partially silicified) and lesser sediments. The contacts between mafic rocks and sediment are unclear, as is the structural trend of the fault zone.
		<u>Mafic Volcanic</u>
87.59	89.62	Medium to light green, fine grained, relatively massive and homogeneous, weakly chloritized basaltic rock. No prospective alteration or mineralization. Unit grades into a 20 cm zone of lineated crystal tuff (~50-55 deg. t.c.a.) prior to commencing into a darker green mafic lithology.

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<u>Depth</u>	<u>Description</u>
(from) (to)	
89.62 98.77	<u>Mafic Volcanic (Chloritized)</u> Dark green, fine grained, soft, strongly chloritized mafic volcanic. Unit is moderately magnetic throughout and contains trace (<1%) disseminated pyrite mineralization. Unit appears partially mottled in part, possibly a fragmental feature overprinted by pervasive dark chlorite alteration or vague weak development of cordierite porphyroblasts?? Minor epidote veinlets and patches occur locally, typical of sea floor metamorphism. Fractures are relatively common, generally 55-60 deg. t.c.a. and are chlorite coated. Sulphide mineralization is present (<1%) as fine disseminations and lesser laminated veinlets and stringers, exclusively pyrite. Lower irregular, possibly zonal contact.
98.77 104.25	<u>Cordierite rich Metavolcanic (mafic)</u> Medium grey to green, heavily spotted dark green, fine grained, homogeneous, cordierite rich metavolcanic. Very definitive porphyroblastic texture characterized by 25-30%, 3-8 mm, spotted, cordierite grains surrounded by a leucocratic (pinkish) aphanitic matrix, presumably altered/metamorphosed felsic rocks? Dark green coloration of ample cordierite porphyroblasts are likely a consequence of chlorite alteration. Unit is relatively non-magnetic. > 102 m unit becomes less cordierite rich and a weak-moderate mineral alignment (fabric) ~ 45 deg. t.c.a. becomes evident. Lower sharp contact ~ 45 deg. t.c.a. 101.7-102 m: Buff colored section of aphanitic hard felsic rock with clean, sharp, contacts, possibly felsic dike? Trace buckshot pyrite is associated with this lithology. Contacts ~ 45-50 deg. t.c.a.
102.7 115.75	<u>Basalt</u> Medium to dark green, fine grained, massive and homogeneous, strongly magnetic basaltic unit. Majority of unit appear fresh and unaltered with possibly a weak retrogression of mafic pyroxene mineralogy to hornblende. Trace mm-scale white quartz veinlets are observed throughout. No prospective alteration or mineralization is associated with unit. Minor fractures present throughout typically 55-60 deg. t.c.a. Final 30-40 cm of unit is increasingly black and aphanitic characteristic of a chill margin, suggesting basalt maybe intrusive rather than extrusive has originally concluded. Lower low angle irregular contact ~15 deg.

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<u>Depth</u> (from)	<u>(to)</u>	<u>Description</u>
		<u>Tuff?</u>
126.5		Dark to medium green, predominantly fine grained, fragmental in part, highly variable tuff? Initial couple of meters of unit is grey to green with a quartzofeldspathic composition that appears to be defined by moderately lineated, concentrated 2-5 mm quartz crystals sometimes surrounded by fine grained green chlorite presumably interstitial alteration. Minor fractures are also coated with dark green chlorite alteration. Unit developed in to a fine grained, strongly magnetic rock @ ~ 118 m with what appear to be a lithic tuff. Several dark vague to occasionally mint green (epidotized) 1-2 cm angular fragments can be observed within a medium grey quartzofeldspathic matrix. Epidote patches are quite common and are interpreted to reflect preferential alteration of the fragments, however, there are trace instances of pink garnet associated with epidote suggesting late regional metamorphic veining related to Dawes Pond Intrusive. @ 126.5 rubbly zone of core appears to grade into a weakly foliated mafic lithology. Trace (<1%) fine grained sulphide mineralization (exclusively pyrite) is observed disseminated throughout. 124.1 m: short interval of crystal tuff as described earlier in unit with a local accumulation dark acicular crystal aggregations.
		<u>Basalt</u>
126.5	143.65	Medium green, fine grained, weakly foliated, strongly magnetic mafic lithology. Unit is no as melanocratic as basalt described above, instead unit is less fresh, slightly chloritized and epidotized (sea floor metamorphism). As well feldspathic mineralogy is more observable, specifically white plagioclase, more leucocratic in character. White quartz veins paired with minor green epidote and trace pink garnet is also observed throughout often cutting core @ ~50-60 deg., also minor fractures are generally the same structural trend. No prospective mineralization or alteration is observed. Lower sharp, irregular contact at low angle t.c.a. (~ 25 deg.)
		<u>Basalt/Gabbro</u>
143.65	152.7	Salt and pepper, fine grained, remarkably homogeneous and massive, phyrlic basalt.
	(E.O.H.)	