

Gallery Resources - Gullbridge Project 2001

DDH - SW-09

License #:	3326	Collar Easting:	0+75 E	Logged by:	VA French / Chad Wells
Property:	Gullbridge	Collar Northing:	1+50 N	Date:	
	Southwest Shaft	Hole Azimuth:	130 deg.	Start	Jun-28
		Hole Inclination:	45 deg	Finish	Jun-29
		Total Depth:	108.8		

<u>Depth</u> (from)	<u>(to)</u>	<u>Description</u>
3.5	6.57	<u>Basalt</u> Medium to dark green, fine grained, massive, homogeneous unit of basalt. Trace white calcite amygdules locally, no alteration except for a weak epidote (sea floor) alteration typical of the environment of deposition. Strongly magnetic throughout, no sulphide mineralization, lower broken contact.
6.57	16.15	<u>Chert / Fe-formation</u> Red to white chert horizon with abundant irregular cross cutting veinlets of white quartz. Unit is strongly magnetic and contains common visible black oxide mineralogy (mgt) throughout. Minor to trace epidote alteration continues throughout often associated with the margins of the anastomosing quartz veins, and irregular patches (late quartz injections into fractured wallrock). ~14.5 m units maroon color dissipates and becomes grey to green in coloration but retains strong magnetic character. A lineation is present but often indeterminable due to overprint of quartz veins, however, local oriented laminae paired with relatively similar fractures planes suggest a 70 deg. fabric consistent with regional geology. Diffuse lower contact with strongly magnetic mafic.
16.15	22.6	<u>Basalt</u> Medium green, massive, homogeneous basalt, with strong magnetic character, identical to that intersected above. Lower contact @75 deg. t.c.a.
22.6	26.42	<u>Metasediment (Chert/Fe-formation)</u> Light to medium grey, green and maroon in part, finely laminated and sheared sediment somewhat similar in characteristics to chert/Fe-formation identified above but lacks the prominent maroon coloration except locally. Like above, unit is strongly magnetic, contains common oxide and displays weak epidote alteration peripheral abundant, broken quartz veins. Quartz vein appears to conform to a preferred lineation @ 70-75 deg. t.c.a. often as alternating laminae with chert formation. Unit grades into a strongly laminated schist/gneiss @ ~26.42 m.

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<u>Depth</u>	<u>Description</u>
(from) (to)	
26.42 35.75	<u>Quartzofeldspathic Schist</u> White to buff, slightly pink and green in part, strongly laminated lithology primarily composed of milky white quartz laminae, pink feldspar (orthoclase), and dark green chlorite. Overall unit is rather similar to quartz chlorite schist intersected elsewhere in the regional stratigraphy, except here the dominance of pink feldspar is new, and also lacks cordierite porphyroblast typical of that unit. The cordierite mineralogy is thought to reflect a metamorphosed Mg-Fe alteration characteristic of VMS alteration, thus suggesting this hole maybe out of the alteration scope. Unit is particularly homogeneous throughout and has little variability in its Quartzofeldspathic composition and coincident chlorite alteration. The alternating laminae display a well developed 65-75 deg. fabric consistent throughout. This schist is likely a deformed sediment rather than a sheared felsic has most often observed. Unit grades into a sheared andesite or chloritic schist at lower contact.
35.75 52.02	<u>Quartz Chlorite Schist</u> Light to medium grey, white and green in part, moderately laminated schistose unit. Majority of mineralogy consists of alternating laminae of quartz and chlorite oriented ~70 deg. t.c.a. Unit contains common irregular patches and veins of milky white quartz, presumably late fracture in fills. A weak epidote alteration paired with chlorite seems consistent throughout. Overall unit is relatively homogeneous with slight variation consisting of more siliceous zones or slightly more altered intervals. Fractures are typically high angle @~70-75 deg. t.c.a., and often contain weak chlorite alteration coatings. Lower contact is staggered by an irregular quartz patch at an high angle t.c.a.
52.02 56.43	<u>Chert / Fe-formation</u> Dark maroon to black, light green and yellow in part, moderately laminated, and strongly magnetic throughout. Fabric is rather regular at ~65-70 deg. t.c.a. Very similar to Fe-Chert identified above except for presence of yellow mineral interpreted to be a mix of epidote & Fe-carbonate alteration. Zone is more strongly alternated with variably contorted laminae towards lower contact. @ 54.5-54.86 m: Short zone of silicification paired with weak sulphide mineralization, consisting of 2-3%

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<u>Depth</u> (from) (to) cont...	<u>Description</u>
	laminated stringer pyrite.
56.43 ~59	<u>Cordierite rich Metavolcanic</u> Medium grey to green, mottled yellow-brown in part, porphyryblastic cordierite rich volcanic. Majority of lithology is composed of a fine grained, aphanitic, volcanic overprinted by 3-8 mm, anhedral porphyroblasts of mustard colored cordierite grains. Cordierite grains display a spotted texture throughout unit, comprising >25% of the mineralogy. The grains appear to be altered to a siderite composition internally haloed by the chlorite rims, mere pseudomorphs of the original cordierite composition. Cordierite rich zone grades into a quartz chlorite schist.
59 60.75	<u>Quartz Chlorite Schist</u> As above.
60.75 68	<u>Basalt / Andesite</u> Medium to dark green, very fine grained, relatively massive and homogeneous mafic lithology. Trace to minor dark chlorite alteration paired with local patchy epidote alteration. Locally unit does appear to be slightly silicified coincident with minor sulphide mineralization. Overall unit contains 1-2% disseminated, fine grained pyrite, however, in more silicified portions grades 3-5% sulphide (pyrite). Unit is weakly magnetic throughout but appears not to contain any sulphide other than pyrite, no pyrrhotite. Minor fractures, typically 65-75 deg. t.c.a., and trace chlorite alteration coating fracture planes. Gradational contacts.
68 69.88	<u>Quartz Chlorite Schist (Cordierite rich sections)</u> Strongly foliated quartz dominated schist as described above, local development of cordierite porphyroblasts overprinting lineation. Cordierite grains are typically dark bluish anhedral, and 3-8 mm in size, displaying a typical spotted, mottled texture. Gradational contacts. 69-69.88 m: Moderate Fe-Mg alteration typically associated with foot wall alteration of SW Shaft.

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<u>Depth</u> (from)	<u>(to)</u>	<u>Description</u>
		<u>Basalt-Andesite (Sheared) Chlorite Schist</u>
69.88	73.15	Medium to dark green interval to weakly mineralized basaltic? rock as described above. Common 3-5% disseminated medium grained (buckshot) pyrite and lesser pyrrhotite preferentially laminated to a weak 65-70 deg. fabric. Weak chlorite alteration and moderate magnetic character suggest zone may be a weakly altered version of the Fe-Mg altered zones identified regionally. Very similar to weakly mineralized basalt intersected above except for the moderate lineation (shearing) developed throughout.
73.15	81.5	Medium grey to green, slightly brown in part, fine grained, relatively homogeneous, basalt-andesite. Very similar to weakly sheared mafics mentioned above except for introduction of 10-15% laminated brown mica (biotite). Preferentially aligned mica suggest a 70-75 deg. fabric consistent with regional geology. Lithology also contains short local zones of quartz chlorite schists with a similar fabric. Unit is weakly mineralized throughout containing evenly dispersed, fine grained, disseminated sulphide, exclusively pyrite with possibly rare to trace chalcopyrite. Overall unit contains 2-3% disseminated sulphide. Unit gradational developed into a more prevalent quartz chlorite schist towards lower contact.
		<u>Quartz Chlorite Schist</u>
81.5	90.92	Light to medium grey, medium green in part, finely laminated, moderately foliated, sheared volcanic or schist. Similar to chloritic schists described above, foliation remains consistent @ ~ 70 deg. t.c.a. throughout, very little variability. Trace (<1%) disseminated pyrite is observed locally.
		<u>Cordierite-rich Metavolcanic</u>
90.92	95.9	Medium grey to green, partially bluish and spotted locally, majority of unit is very finely laminated with a preferred orientation equivalent to regional fabric. Overall 3-8 mm, vague, anhedral cordierite porphyroblasts constitute 10-15% of mineralogy and appear to over grow the fabric lineation like elsewhere in the region. Remainder of mineralogy consists of lineated chlorite and lesser quartz laminae, irregular quartz patches or veins also occur throughout. Towards gradational lower contact a schistose character becomes more prominent as does presence of aligned micaceous minerals, specifically

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		biotite and sericite. No mineralization is observed within unit.
		<u>Basalt-Andesite</u>
95.9	98	Medium to light green, weakly sheared volcanic described up hole, slight variations in shearing intensity throughout. Weak chlorite and possibly epidote alteration is present locally, no mineralization associated with lithology. Lower contact @45-50 deg. t.c.a.
		<u>Mafic Dike</u>
98	98.55	Dark green to black, fine grained, relatively massive and homogeneous with no hint of alteration or sulphide mineralization. Both upper and lower contacts are 45-50 deg. t.c.a.
		<u>Mafic volcanic/tuff (locally schist)</u>
98.55	108.8	Dark to medium green fine grained and finely laminated throughout. Majority of mineralogy is defined by mafic minerals and local chlorite alteration. Evident with zones of moderate lineation/deformation is brown laminae presumably a tuffaceous component of the mafic lava. Foliation is quite consistent @ ~70 deg. t.c.a., with local variations due to crenulated laminae displaying thin, wispy, parasitic folding. Unit is relatively homogeneous throughout except for minor white quartz veins which are often haloed by thin haloes of mint green epidote.chlorite alteration. Trace very fine grained sulphide (pyrite) distributed throughout. Contacts conform to regional foliation.

(E.O.H.)