

Gallery Resources - Gullbridge Project 2001

DDH - B - 02

License #: 4006
Property: Gullbridge
"B" Anomaly

Collar Easting: 1+00 W Logged by: V.A. French /
Collar Northing: 2+00 S Chad Wells
Hole Azimuth: 290 deg. Date:
Hole Inclination: 55 deg. Start Mar. 8/01
Total Depth: 373.99 Finish Mar. 15/01

Down Hole Surveys (Tropari):

291 / 57 @ ~124.05 m
289 / 56 @ 372.77 m

<u>Depth</u> (from)	<u>Depth</u> (to)	<u>Description</u>
5.71	6.51	<u>Gabbro</u> Green to grey, predominantly salt and pepper coloration, medium to coarse grained, massive, relatively homogeneous, unaltered mafic intrusive. A porphyritic texture of dark green mafic mineralogy, hornblende, pyroxene, biotite, and lesser chlorite compiling the matrix (3-5 mm) subhedral phenocrysts, and large 5-10 mm, diffuse white plagioclase crystals, exaggerating porphyritic texture. This intrusive unit has been obviously hydrated and altered (retrogression of pyroxene to hornblende). Lithology is practically non magnetic with no apparent sulphide mineralization or prospective alteration. Lower contact is well rounded, and suggests this unit is probably a large boulder.
6.51	21.32	<u>Mafic Volcanic (andesite)</u> Light to occasionally mint green lithology grading to medium green coloration down hole, fine grained, predominantly massive however, laminated locally, interbedded mafic volcanic and tuff. Upper part of unit contains large pervasive epidote patches with associated white quartz mineralogy. Trace sulphide, in one instance, predominantly cpy occurs as coarse blotches within altered patches. Also consistent with upper interval is visible 2-5 mm laminations @ ~30 deg. t.c.a. that becomes less obvious with depth, unit gradational becomes more massive with no fabric, presumably tuffaceous horizons grading to more typical massive volcanic flows. Majority of unit is moderately broken and rubbly with highly variable fracture planes that are consistently coated with pink to red hematite staining. Minor erratic veinlets of quartz occur throughout lithology. No sulphide.
21.32	24.29	<u>Argillite (graphitic? shale)</u> Black, aphanitic to occasionally laminated section of rock presumably argillaceous sediment. Strong black coloration and softness suggest presence of graphite, no sulphide associated with unit. Where a bedding lamination is observed it typically trend at a low angle t.c.a. ~25 deg. consistent with upper contact. Hematite coating on fracture planes paired with minor epidote alteration is common. Pervasive epidote alteration does occur locally. Lower gradational contact.

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	"B" Anomaly	Hole Azimuth:	290 deg.	Date:		289 / 56 @ 372.77 m
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<u>Depth</u> (from)	<u>Description</u> (to)
24.29	29 <u>Mafic Volcanic</u> Medium green, fine grained massive unit of mafic volcanic as described above.
29	30.24 <u>Felsic Dike (QFP-quartz feldspar porphyry)</u> Pink to orange, porphyritic felsic dike. Very hard, siliceous aphanitic ground mass speckled with common, 1-2 mm, anhedral phenocrysts of predominantly feldspar and lesser quartz. There is a weak suggestion of alternating black and orange laminae conforming to a 60-65 deg. fabric equivalent to lower contact. Section is relatively rubbly and broken with minor epidote and carbonate alteration throughout. Overall unit is relatively homogeneous. No mineralization.
30.24	33.35 <u>Mafic Volcanic</u> Medium green, fine grained, massive homogenous section of mafic volcanic, as above.
33.35	43.7 <u>Granitoid</u> Pink to tan, fine grained phytic interval of granitoid. Mineralogy is primarily pink feldspar mixed with quartz with lesser black biotite, and possible hornblende. Units quite hard and homogeneous, very massive with no hint of fabric. Relatively unaltered except for minor epidote veinlets and minor epidote and carbonate on fracture planes. Gradational upper contact and an abrupt 70 deg. lower contact staggered by 5 cm of intense epidote and carbonate alteration.
43.7	45.9 <u>Quartz Feldspar Porphyry</u> As described above. Very rubbly broken section of core, obviously due to the brittle behavior of hard felsic rocks in zone of deformation.
45.9	100.5 <u>Mafic Volcanic (grading to mafic tuffs)</u> Medium green mafic variably changing from relatively massive, fine grained volcanic flows to well laminated, deformed mafic tuffs. Fabric is low angle t.c.a., typically <30 deg. Epidote, chlorite and lesser hematite alteration are all common throughout typically as fracture coatings. Epidote does occur as discrete laminations in the more tufaceous sections

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<u>Depth</u> (from) (to) cont...	<u>Description</u>
	Minor erratic white quartz-carbonate veinlets occur often. Variable section of rubbly broken core likely indicative of fault zones. Fault gouge @ 49 m is certainly indicative of a fault at that depth. > 90 m rocks appear more pervasively fractured but unbroken, erratic hairline fractures almost make unit look brecciated. Lithology is moderately-strongly magnetic throughout but becomes extremely magnetic >90 m. No sulphide or alteration within entire unit.
	<u>Mafic Intrusive (Chill Margin)</u>
100.5 107.55	Medium to dark green, fine grained, massive homogenous unit of mafic rock. Originally perceived as a massive basaltic flow, however, the gradational change in grain size towards a lower contact with medium grained gabbro suggest unit is likely chill margin of the intrusive episode. Unit is fine grained and appears dominated by mafic mineralogy, pyroxene. Lithology is strongly magnetic displays no alteration except for occasional erratic quartz veinlets. Unit grades into a coarser grained, salt and pepper colored gabbro.
	<u>Gabbro</u>
107.55 148.3	Medium green to grey, predominantly salt and pepper coloration, fine to increasingly medium grained, massive, homogeneous, fresh, gabbro. Significant increase in grain size and plagioclase content (leucocratic) compared to chill zone above. Mineralogy is easily identifiable, as a 50/50 mode of pyroxene and plagioclase, composition may in fact be slightly dioritic locally. Minor fractures throughout, typically ranging from 45-65 deg. t.c.a. Trace quartz veinlets occur locally, no prospective alteration or mineralization. Final 2-3 m of unit displays pink to red veinlets, interpreted as hematized quartz veins in filling fracture zones. 121.55-128.33: finer grained, identical to chill zone described above.
	<u>Mafic Volcanic (lesser interbedded tuffs)</u>
148.3 219.6	Medium green mafic volcanic flows and lesser tuffs, similar to mafic volcanic sequence described above. Variable section of plagioclase porphyritic basalts (169-169.77, 178.8 - 185.01 m),

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Depth
(from) (to)
cont...

Description

characterized by 3-5% subhedral, 1-3 mm, plagioclase phenocrysts within a melanocratic mafic matrix displaying a convincing porphyritic texture. Locally many of the plagioclase phenos exhibit light green coloration indicative of saussuretization. There are also notable intervals of more prevalent erratic quartz veining (ie. 157.35-164 m). Overall entire unit is remarkably homogeneous with only local variations described above. Minor rubbly sections of core, however, majority is quite massive. No distinct contacts.

155.3-155.35 Thin white quartz veins/patch with trace amounts of fine grained sulphide, apparently cpy rich (>1%), minor chloritic alteration also hosted within vein.

216.32-218.04 Darker (melanocratic) interval of mafic rock with visible low angle (<20 deg. t.c.a.) laminations / bands exaggerated by common thin 1-3 mm light green epidote laminae (veins?) and erratic patches. One 1- 2 cm blotch of sulphide, likely fracture related.

218.04-219.6 Light to medium green, fine to medium grained, massive, moderately altered (hydrated) gabbro. Common epidote paired with lesser chlorite alteration exhibiting lighter green coloration, as well the gabbro appears to be dominated by hornblende rather than pyroxene. Both upper and lower contacts are low angle t.c.a. (<20 deg.).

Mafic Volcanic / Tuff

219.6 229.21 Medium green, very fine grained, laminated interval of mafic rock. A prominent low angle foliation, ~20 deg. t.c.a., contrast the typical more massive mafic volcanic intersected above. Laminations may represent original flow bands or more likely a structural lineation occurring in more ductile fine grained mafic tuffs rather than massive flows. Light green epidote alteration is relatively common throughout as hairline laminations. Thin 1-2 mm thick quartz veinlets are observed as thin veinlets conforming to fabric or as small contorted patches, small scale boudins. Unit is moderately broken and rubbly, majority of fractures display red-pink color coating, hematite staining, hematite is also observed locally haloing some of the quartz mineralogy. Dark green chlorite alteration is also coating fracture planes. No apparent sulphide mineralization or prospective alteration. Low angle upper and lower contact @ ~30-35 deg. t.c.a.

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229.21	339.88	<u>Mafic Volcanic</u> Monotonous medium green sequence of variable basalts, mafic flows, tuffs, and intrusive. Typical minor erratic quartz veinlets, minor epidote and chlorite alteration as well as trace hematite along fracture planes. 229.21-237.25 Medium green, fine grained, massive fresh basalt, presumably intrusive. 237.25-266.53 Medium to dark green, well laminated mafic tuff containing a significant increase in white anastomosing quartz veinlets, as well as increasing chlorite alteration. A well developed fabric generally < 45 deg. CA, quartz veins often conform to fabric. Tuff is often fractured and broken in appearance, erratic hairline fractures exhibit a brecciated appearance, although not fragmental in nature. Hematite staining is also relatively common coating variable fractures that for the most part conform to the ~45 deg. lineation feature. 302.7-305.41 Broken rubbly zones of core, ample chlorite and hematite alteration presumably indicative of a fault zone, similar zone can be observed @ 309.67-310 m. 321.87-326.44 Fault zone like that above, extremely rubbly, broken core interval.
339.88	341.23	<u>Felsic Dike (Feldspar porphyry)</u> Dark melanocratic, porphyritic, quartzofeldspathic, hard, unit of felsic rock, likely intrusive. Interval is characterized by an aphanitic, melanocratic matrix, containing 10-12 % white to slightly green, subhedral-anhedral, 1-3 mm phenocrysts of plagioclase feldspar, exhibiting a porphyritic texture. Phenocrysts are moderately saussureitized (epidote alteration haloing phenos), also epidote alteration is common has erratic hairline fracture fillings throughout unit. Upper irregular contact, lower contact grades into a more typical leucocratic felsic intrusive.
341.23	347.78	<u>Felsic Dike (leucocratic)</u> Buff to cream, pink in part, fine grained to aphanitic locally, porphyritic-phyric, hard, relatively massive felsic rock. Slight mottled appearance, pink to reddish-brown aphanitic mottled matrix of feldspar containing irregular patches of black mineralogy (biotite+hornblende?) and common 8-10%, 1-3 mm, subhedral crystals of both white plagioclase feldspar and grey quartz. Lithology does appear to display characteristic of a quartzofeldspathic felsic intrusive. Minor hairline epidote and quartz veinlets

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Description

occur throughout. No prospective alteration or mineralization. Broken lower contact

Mafic Volcanic

347.78 373.99 As above.
(E.O.H.)