

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90 DY - 02

Reference Fabric Orientation Diagram: _____

Project: _____

Location: DY PROPERTY

Claim: _____

UTM ~~Ferr. Plane~~ Co-ords.: 6901355.1 N

597367.9 E

Grid Co-ords: _____

Elevation: 1096.9

All symmetry determinations looking

Total Depth: 149.4 m

_____ with _____ dipping

Inclination: -90

_____ with dip azimuth _____

Purpose: LOCATE FAULT FOR DATA REQUIRED TO CALC 3-PT PDM.

Reason hole Terminated: INTERSECTED FAULT OF INTEREST.

Logged by: J Zepeda

Date(s) Logged: _____

Drilling Contractor: E. CARON DRILLING

Hole Cemented: YES Steel down Hole: CASING

Size	CORE From	To	Collar Cased and Capped: <u>P...</u>
<u>CASING</u>	<u>0.0</u>	<u>3.1m</u>	
<u>NG</u>	<u>3.1</u>	<u>149.4</u>	

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24 26 28 30	34 35			
	0.0	3.1				CASING? CASING LEFT IN HOLE
	3.1	8.9			5C8	MAGNETIC Pyroxinite Rock is dark green, medium grained, non calcareous and moderately magnetic. Matrix or clasts are poorly preserved and moderately chloritic. Rock is medium soft to soft and moderately to strongly broken. A weak to moderate P S ₂ fabric persists. S ₂ surfaces are dark green and weakly oxidized. Lower contact is obscured in bedrock.
	8.9	14.7			5C9	MASSIVE Medium green, fine grained, generally massive but with some small veins (2-5 mm). Interval has 2-7% fine grained but mineral (Lucasene?). Fine grained rock is soft, and strongly broken with minor P S ₂ fabric is generally very weakly developed. S ₂ surfaces are medium green. Lower contact is marked by weak gouge zone.
	14.7	16.3			5FA 5	5C0 (95:5) light green, moderately calcareous rock generally with a moderately well developed CS ₂ fabric and 7-10% veinlets and stringers of calcite often oriented parallel S ₂ . S ₂ surfaces are dark to medium dark green. Rock is slightly soft. Upper contact is marked by gouge, lower contact is sharp and parallel S ₂ . Core is moderately broken.
	16.3	20.9			5C0	Medium green massive rock is non calcareous and contains 0-5% fine grained but mineral (Lucasene?)

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	36	
												PS ₂ is generally very weakly developed throughout. S ₂ surfaces are dark green. Rock is slightly soft. Upper and lower contacts are sharp and parallel S ₂ . Core is moderately broken with minor rubble zones.
	20.9	26.8			5FQ							light green rock is moderately to strongly calcareous and hosts 7-10% calcite veins and dots often parallel S ₂ . CS ₂ is generally well developed. S ₂ surfaces are medium greenish gray. Rock is medium soft, core is slightly to moderately broken, recovery is good. Upper and lower contacts are sharp and parallel S ₂ . Symmetry is M.
	26.8	32.7			5BQ							Medium gray strongly to moderately calcareous rock contains a moderately well developed CS ₂ fabric. S ₂ surfaces are medium dark gray. Rock is slightly soft, core is slightly broken with good recovery. Upper contact is sharp and parallel S ₂ . Lower contact is gradational over 10cm.
	32.7	33.5			5FD							Medium green, strongly calcareous phyllite contains a well developed CS ₂ fabric. S ₂ surfaces are medium to dark grayish green. Well developed laminae are .5-3mm wide. Rock is medium soft, core is slightly to moderately broken, recovery is good. Upper contact is gradational over 10cm, lower contact is sharp and parallel S ₂ .
	33.5	34.6			5DQ							Medium to slightly olive green, fine grained, massive unit contains localized occurrences of well developed PS ₂ . It is not calcareous and hosts 5-7% calcite and quartz inclusions.

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	35	
												verticals of variable orientation. Rock is slightly soft, core is slightly broken, recovery is good. Upper and lower contacts are sharp and parallel S_2 .
	34.6	42.2			5B9	(5B4) 87:13						Medium gray, strongly to moderately carbonated rock contains PS_2 fabric with localized well developed CS_2 . S_2 surfaces are medium to medium dark gray. Where preserved laminae are .5-3mm in width. Unit hosts 2-3% calcite. Verticals and slates of variable orientation. Rock is slightly hard, core is slightly broken and recovery is good. Upper contact is sharp and parallel S_2 . Lower contact at 42.5 is marked by very soft rubble.
												5B4 at 41.5-42.5 is yellowish brown, very soft and strongly calcareous and contains a faintly preserved CS_2 fabric. Discoloration is due to more than oxidation. Rock is soft, core is strongly broken to crushed, recovery is good.
	42.2	50.4			5C9							Medium green, locally weakly carbonated rock contains 7-10% calcite veining and 0-10% fine-grained biotite (luciferine). Unit contains a weak to moderate PS_2 fabric. Igneous texture is very well preserved (gabbro). Rock is hard, core is slightly broken and recovery is good. Upper contact is obscured in rubble, lower contact is sharp and parallel S_2 . Rock is very soft at 45.1-45.4.
	50.4	51.8			5F0							Medium green weak, moderately carbonated unit

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
											contains 10% calcite in bands and clots parallel to well developed PS_2 fabric. S_2 surfaces are medium green. Rock is slightly soft, core is moderately broken, recovery is good. Upper and lower contacts are sharp and parallel S_2 .
	51.8		57.5						590	(590 - Pyroxinite) 91:09	Medium green, moderately chloritized, moderately locally strongly calcareous rock contains 0-7% skeletal chloritized matrix quartzite and 0-10% fine grained well mineral (magnesian) CS_2 fabric rarely lost to PS_2 . Igneous texture is weakly preserved. Rock is generally soft, core is slightly locally strongly broken, recovery is good. Upper and lower contacts are sharp and parallel S_2 .
											590-Pyroxinite: 55.8-56.3 Medium dark green, massive, slightly magnetic weakly to moderately calcareous unit hosts a very weak PS_2 fabric.
	57.5		58.4						590		Medium to light green very slight tint of olive green (?), moderate to strong carbonization occurs only in 1-2mm bands parallel to strong PS_2 fabric. Unit is very fine grained and lacks occurrences of leucocrine. Rock is hard to medium hard & massive, core moderately broken with local rubble zones, recovery is good. Upper contact is sharp and parallel S_2 . Lower contact is selected on first occurrence of biotite development, contact is slightly irregular but generally follows S_2 . S_2 surfaces are medium green

Lithologic Log

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
	58.4		60.6						5F4	(5C4) 60:40	<p>Medium green, locally black, very fine grained, strongly to moderately calcareous unit is sporadically altered to biotite. Biotization bands (2-5 cm) are generally coincident with strong PS_2 fabric. Leucocyanite occurs sporadically throughout interval both within and beyond biotized bands. S_2 surfaces vary from black to medium dark green. Fine laminae(?) (1-1.5mm) are coincident with PS_2 fabric. Protolith is considered a mixture of SF and SF. Rock is generally soft, core is moderately broken with good recovery. Upper contact is sharp and subparallel S_2, lower contact is gradual with a gradual reduction in biotite alteration.</p>
	60.6		62.6						5FA	(5C0)	<p>Medium to medium light green, strongly calcareous phyllite is generally well laminated and contains a well developed PS_2 fabric. Laminae are 1-7mm in width. S_2 surfaces are dark green. Rock is medium soft, core is moderately to strongly broken recovery is good. Upper and lower contacts are sharp and parallel S_2.</p> <p>5C0 occurs at 61.1 to 61.6, medium to light green moderately calcareous rock contains a strongly developed PS_2 fabric. Unit has trace-1% highly stretched mafic minerals. Rock is moderately hard, core is slightly broken recovery is good.</p>

Code	From			To			Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	36			
	62.6		67.5										548	<p>Chloritized Pyroxinite?</p> <p>Moderately hard green rock contains 3-10% medium grained weakly chloritized mafic crystals within a lighter green non calcareous massive host. Unit is sporadically moderately magnetic, and contains a weak PS_2 fabric 15-20% 1-3mm mafic minerals weakly stretched into S_0. Rock is soft, core is moderately and locally strongly broken, recovery is good. Upper and lower contacts @ 0.5-0.6 meter intervals of medium green, massive, fine grained rock.</p>
	67.5		76.4										549	<p>Pyroxene, Magnetic</p> <p>Dark green medium grained rock contains a moderately well preserved igneous texture. Unit is commonly magnetic and has 2-15% altered mafic crystals 2-5 mm in diameter. PS_2 fabric is very weakly developed. Rock is generally soft, core is moderately locally very strongly broken recovery is good. Upper and lower contacts are parallel S_0 and sharp.</p>
	76.4		80.5										540	<p>8 Gabbro</p> <p>Medium green, massive, non calcareous rock contains a well developed igneous texture. Unit has 7-10% calcite in the very well developed features. Chloritization sporadic and weak. PS_2 fabric is very weakly developed. Rock is moderately hard, core is moderately locally slightly strongly broken recovery is good.</p>

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30	34 35
	89.5	82.5			5B5	Medium green moderately calcareous rock is well laminated (1-20mm) with a well developed PS_2 foliation. Rock is moderately calcareous and hosts two very open folds at 81.4 to 82.0. Axial planes are oriented subperpendicular core axis. Rock is moderately hard, core is generally strongly broken, recovery is good. Upper and lower contacts are sharp and parallel PS_2 fabric.
	82.5	83.5			5C8	Medium green non-calcareous rock contains matrix chloritic alteration zones a weakly preserved igneous texture. Unit hosts 2-7% to fine grained biotite mineral (luciferous) PS_2 is generally well developed locally, poorly developed. Rock is generally soft weakly, locally moderate, breaking, recovery is good. Upper contact is sharp and parallel PS_2 ($59^\circ TCA$). Lower contact is sharp and oriented $12^\circ TCA$. No relationship with lower contact to PS_2 is available.
	83.5	86.7			5C9	Magnesian Pyroxinite Dark green, massive moderately magnesian unit contains a moderately well preserved igneous texture. Unit is weakly chloritized, non-calcareous and soft. Core is weakly broken, recovery is good. PS_2 is very widely developed. Rock contains 7-10% bedded structures oriented at $20-30^\circ TCA$. Upper contact is sharp, lower contact is gradational.
	86.7	89.7			5C8	Altered Pyroxinite Dark green to buff, generally massive unit becomes progressively more bleached down hole. About 0.5 meter is strongly bleached locally, hard and

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	35	
												contains 5-7% fuchsite. Minor pyrite and marks of sulfidation are common. Unit is rarely magnetic and is non-calcareous and non-dolomitic. Unit contains a weak fabric often disturbed by rotated threads along very low angle healed fractures.
	89.7	91.5			5CA	31 FAULT						Buff in color, generally moderately hard, more competent, weakly to moderately calcareous. Sulfidation is moderate and ubiquitous. 2-15% fuchsite. Interval is generally intact & crushed. No igneous texture remains, smoky quartz remnants are locally preserved in rare unaltered blocks. In this quartz is broken and replaced by silica. Lost 0.4 m core. PS_2 fabric is locally preserved.
	91.5	95.3			5B2	FAULT						Dark gray, strongly broken rock locally weakly bluish to medium gray. Unit is non-calcareous. Gouge is localized in narrow bands (5-10cm) at 92.5m and 95.2. Shear fabric varies throughout interval 35° tca @ 92.5 18° tca @ 92.7 45° tca @ 95.3: also defines razor sharp contact with lower unit. PS_2 is well developed and strongly influences orientation

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
											of core breakage. 2.0m recovered.
	95.3		97.6						5CA	FAULT	Structural blow-out to medium to light grey-buff to buff green, 0-5% fucshite. Unit is weak fracture 20% slip, strong shear zone is pervasive. Localized 1-5mm breccia fragments of dolomite are highly rotated. Shear zone is curvilinear, 70° to core axis, rarely as low as 45°.
	97.6		103.4						5B2*		Dark gray phyllite is moderately to weakly dolomitic and has 2-5% quartz carbonate veins, 2-5% pyrite porphyroblasts with moderately well developed pressure shadows parallel S ₀ . CS ₂ is moderately well developed. Rock is moderately soft, core is moderately broken, recovery is good. Upper contact consists of strongly broken slightly crushed rock over 0.5m; contact angle; contact be determined. Lower contact is gradual and noted as a reduction in dolomite content. S ₀ surfaces are very dark gray to black and generally do not mark fingers on contact.
	141.1										

Code	From		To		Recov.			No.			Unit	Description
	1	10	14	16	20	22	24	26	28	30	34	
		103.4		141.1							SB2	
												Dark gray, non calcareous unit, contains 3-7% Pyrite porphyroblasts, 3-5% cm scale quartz calcite veins, and a moderately well developed CS_2 fabric. S_2 surfaces are dark to very dark gray and very easily soils fingers on contact. Rock is generally moderately salt core is moderately broken, recovery is good. Upper contact is gradational and noted as a reduction in dolomite content down hole. Lower contact is very sharp and not parallel S_2 ($090^\circ/57^\circ$)
		141.1		149.4							10F1	
												Buff to very light gray, massive porphyritic, non-foliated very weakly calcareous dolomite contains 1-2% euhedral forsterite crystals (.5-1.5 cm). Rock is very hard slightly broken and recovery is good.
				149.4								END OF HOLE

Fault Log

Code	FROM		TO (At)		Feature				UPPER Dip Direct				INTERNAL Dip Direct				LOWER Dip Direct				Description
	10	14	16	20	22	24	26	28	32	34	38	40	44	48	52	56	60	64			
	64.0		64.5							62									Minor crushed rock and gouge. Very weak fault		
	66.1		74.1																Very localized slips and minor faults occur within this generally competent interval		
	89.7		97.8																Strong fault zone, interval is generally massive and strongly bedded. Gouge is bedded and does not exceed 10cm. FAULT in 4 rock units. Two 5C4 units are strongly bedded with moderate rough development. Two 5B2 units are strongly bedded and moderately resistant.		
			149.4																E04		

PROJECT _____ DRILLHOLE NO. 90 Dy-02 COORDINATES: N _____ DATE _____ 19__
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 LOGGER [Signature] INCLINATION _____ ELEVATION _____ 1.000 N 6



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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		ROD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
3.1	—																CASING
4.3		0.3		0			6	E								8	
6.1		0.3		0			6	F								9	
8.2		1.4		0.1			6	F								35	
9.8		0.2		0			7	F								9	
11.1		0.6		0			6	E								15	
11.3		0.9		0			6	E								27	
12.5		0.9		0			6	F								22	
14.3		1.3		0.5			10	F								19	minor zone high bedding at 13.4-14.3
15.5		1.2		0.2			10	F								29	
17.4		1.6		1.2			10	E								15	
19.5		2.1		0.9			10	E								25	
20.7		1.2		0.15			7	E								24	
23.5		2.7		2.3			12	F								20	
26.5		3.0		2.4			12	F								25	
29.6		3.1		2.6			12	F								22	
32.6		3.0		0.8			7	F								45	
35.7		3.1		1.9			10	F								30	
39.7		3.0		1.7			10	F								35	
41.8		3.1		1.8			10	F								35	soft and crushed below 41.6
42.6		1.2		0.2			6	C								17	soft and crushed above 42.2
44.8		2.1		1.2			12	F								14	
47.9		2.9		1.9			12	F								27	
50.3		2.6		1.95			12	E								19	
51.0		0.5		0.2			10	F								6	
51.7		0.4		0			7	F								12	
53.9		2.7		1.5			12	F								41	
56.5		2.5		0.5			9	F								42	

Fig. 1. Typical rock mechanics core log.

PROJECT _____
 LOCATION _____
 LOGGER S. Gupta

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		ROD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
59.1		2.7		1.4				7	F							32	
62.2		3.1		1.8				10	F							27	
64.6		2.4		0.65				6	F							39	
66.1		1.5		0.25				7	F							26	
67.8		1.7		0.5				6	F							29	gauge at 67.4-67.5
69.8		1.9		0.65				6	F							27	locally 6-8" core sumner
71.9		1.8		0				6	F							31	local 2-4cm gauge bands
72.8		0.9		0.35				9	F							13	
75.6		2.0		0.3				7	F							44	
78.2		2.3		1.4				10	F							24	
79.3		1.3		0.3				9	F							20	
80.2		0.9		0.3				7	F							11	
81.4		1.3		0.8				12	F							11	
82.3		0.9		0				9	F							15	
85.3		2.9		2.3				12	F							22	
88.4		3.1		2.2				13	F							21	
90.5		1.9		0.6				10	C							16	minut on datum - gauge
91.4		0.9		0				2	C							22	" " "
92.5		0.6		0				2	C							N/A	" " "
93.3		0.5		0				3	F							N/A	
94.5		1.1		0				3	F							42	
95.4		1.1		0				5	F							41	
96.9		1.4		0.15				4	F							32	
97.8		1.1		0				5	F							29	
99.4		1.4		0.1				10	F							25	
102.4		3.0		1.4				10	F							31	
105.5		3.1		2.0				10	F							35	
108.5		3.0		0.4				9	F							49	

Fig. 1. Typical rock mechanics core log.

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 LOGGER F Zbech INCLINATION _____ ELEVATION _____



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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		ROD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
108.8		0.3		0.15			7		F							6		
111.9		2.9		1.3			7		F							35		
114.9		3.1		2.3			10		F							47		
118.0		3.0		2.1			10		F							27		
121.0		3.0		1.45			9		F							34		
124.1		3.1		1.9			9		F							39		
127.1		3.0		0.95			9		F							46		
129.5		2.4		0.55			9		F							44		
132.6		3.1		1.6			9		F							44		
133.2		0.6		0.15			9		F							8		
136.2		3.0		1.9			10		F							38		
139.3		3.1		1.4			10		F							37		
142.3		3.0		2.5			12		F							18		
143.4		3.1		2.9			13		F							15		
146.6		1.2		0.7			13		F							3	low angle fault	
149.4		2.8		2.0			10		F							15	" " " " "	
																		END OF HOLE -

Fig. 1. Typical rock mechanics core log.