DRILLHOLE SUMMARY FORM

PREDATOR GROUP

HOLE_ID:	AJ11- 26
PROJECT:	ANTIMONY MTN.
PROSPECT:	AJ VEIN
PROJECT CODE:	ANM
End Of Hole CODE	E OH
LOGGED BY:	SHANE A. CARLOS
DATE:	Sept. 27th, 2011.
DRILL TYPE:	KD1000
NAD83 UTM E:	637556
NAD83 UTM N:	7132165
GRID ID:	
GRID X:	
GRID Y:	
ELEV:	1368m
COLLAR DIP:	-55
GRID AZIMUTH:	
TRUE AZIMUTH:	048
PRECOLLAR LENGTH:	250m
TOTAL LENGTH:	253.90m
DH SURVEYED (Y/N):	No
DH SURVEYED BY:	
DH SURVEY TOOL:	
ORIENTED CORE:	No
TOOL TYPE:	

DRILL CONTRACTOR:	KLUANE DRILLING
DRILLER:	Marcelo Giaccaglia / Douglas Abad
START DATE / TIME:	30 Aug. 11' / NIGHT
FINISH DATE / TIME:	7 Sept. 11' / NIGHT

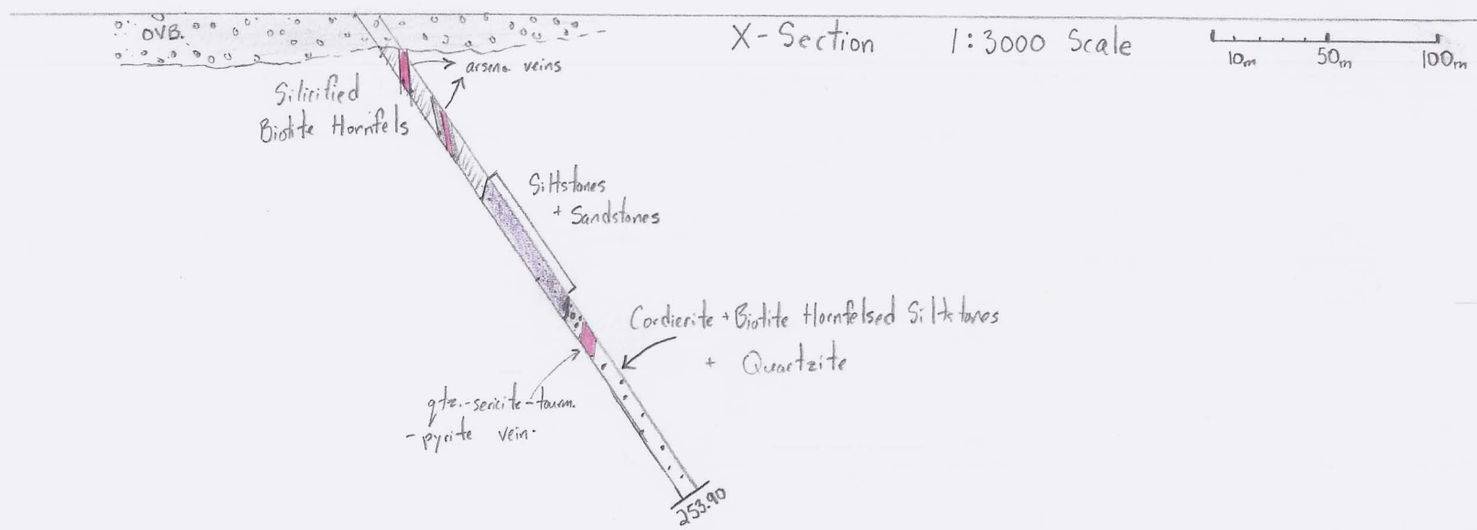
DRILLHOLE SUMMARY **FROM / TO:**

(Slow drilling, etc)

0 - 19.50m overburden of muddy-clay with blocks of granodiorite + meta-sediments. 19.50m - 32.55m silicified (pink) hornfelsed siltstone + greywacke with Po + Py. 32.55m - 34.24m Arsenopyrite-sulphide vein with an argillic alteration halo to 37.10m. To 64.80, minor veining + silicification + sulphides overprinting biotite hornfels. 64.80m - 74.28m Propolytic to Argillic to Qtz-Arseno-Py vein (70.73 - 72.69m) to AR to silicified, nice alteration sequence. 74.28m - 97.70m Qtzite + biotite hornfels with ~1% qtz.-tourmaline, then essentially un-metamorphosed siltstones to 140.10m with shallow angle fault gouge zones, then alternating beds of sandstone + siltstones (~1m beds) to 161.54m. 161.54m - 170.20m Porphyroblastic grey hornfels, then Quartzite with sericite-qtz-tourmaline-py veins, from 170.20m - 184.25m. Interbedded, quartzite + cordierite hornfels to 253.90 (end of hole)

@ 136.25m reduced to BTW size core, from NTW

CROSS SECTION:



MG1 MGW MGW

PREDATOR GROUP

PROJECT: Antimony - AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 10th, 2011.

INTERVAL (meters)	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
15																												0-19.50m Overburden, blocks of granodiorite + meta-sediments. with brown muddy-clay overburden.
17																												
19			19.50																									
			Xhb	BED	FG	OGY	1																					19.50m - 22.00m Meta-greywacke, blocky ground, partially oxidized, fine sand grains → recrystallized, silty fraction.
21			22.00																									
			Xhb	BED	FG	GRG	0	Po	1			Si	PER	3			Qz	5										~~22.00m - 26.40m~~ Pinking of sediment layers, with silica flooding.
23																												22.00m - 26.40m Meta-greywacke, fine sand grains + recrystallized qtz bands, interbedded silty layers and quartzite layers.
25	66°																											
27	66°							Py	1																			26.40m - 29.10m Brown unaltered Meta-greywacke or Biotite Hornfels
			Xhb	BED	FG	GBR	1																					@ 27.80 disc. py. follows bedding
																												@ 28.00m tourmaline-qtz vein @ 20° t.c.a.
29	20°																											

PREDATOR GROUP

PROJECT: Antimony - AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 10th, 2011.

INTERVAL (meters)	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
				Bed	FG	GBR	O					Si	Pat	1			Qz	2			PR	Per	2	Py	1%	CL	2	29.10m - 32.55m Meta-greywacke, ¼mm size sand grains pyrite + chlorite + trace patchy silicification
30			Xhb																									
32	24°		32.55																									
			VN			GY	O	As	7	Py	5																	32.55m - 34.24m, Vein, massive arsenopyrite ~70% 14% pyrite, 1% chalcopyrite, 2% qtz, 1% scorodite ~2% black-green chlorite
34	32°		34.24																									24° t.c.a. upper contact, 32° t.c.a. lower contact
			Xhb	BED	FG	GY	O					Si	Pat	2	QS	20%	Qz.				PR	PER	2	Py	5%	CL		34.24m - 35.76m Silicified meta-greywacke., qtz. veining and py.-arsenopy. veins, diss. arsenopy + py.
			35.76																									
36	30°	20° Gouge	Xhb	BED	FG	GYO	O					AR	Per	3			KLN	5	CL	5								
			37.10																									
				BED	FG	GRG	O	As	1	Py	1	Si	Pat	3	QCS	0.5%	Qz	5										35.76m - 37.10m Argillically altered meta-siltstone. Soft core, with abundant chlorite. Possibly degree of faulting as core is quite soft + disintegrates. Halo of alteration to sulphide zone uphole.
38			Xhb																									
40																												37.10m - 51.40m - Meta-greywacke and meta-siltstone. patchy silicification, ~1% py, ~1% arseno, as veins and disseminations.
42	15°																											43.10 - 43.80m Qtz - Calcite - arsenopyrite - pyrite vein @ 15° t.c.a
44																												

PREDATOR GROUP

PROJECT: Antimony - AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 19th, 2011.

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
				BED	FG	GRG	O	As	1	Py	1	Si	Pat	3	QCS	0.5%	Qz.	5			HF	Pat	2			Biot.	2	Colouration is patchy light green-tan silicification
45			Xhb																									with sections (≈40cm) of brown, v.f.g. biotite hornfels? Biotite is overprinted by Silicification.
47																												
49	15°																											@ 49.30 ~5cm wide faulted zone, clay altered, @ 15° t.c.a.
51								51.40m																				
																												51.40m – 57.30m Meta-greywacke + meta-siltstones
53	sericite		Xhb	Bed	FG	GY	O	As	2	Py	1	PH	Pat	2	QS	3%	SER	3	Kspar	1								disseminated arsenopyrite + pyrite, with grey-white sericite pervaded zones, essentially sericite veins.
55	+ Kspar sericite veins																											56.10 – 56.80 Sericite-Pyrite-Pink Feldspar Vein, @ 25-30° t.c.a.
57	20°							64.80																				@ 57.00m Fault Gouge in thin shear zones, ~20° t.c.a.
			Xhb	Bed	FG	WGR	O	Py	1			Si	Per	3	QCS	½%	Qz	6			HF	Pat	1			Biot.	3	57.30m – 64.80m Meta-Siltstones + greywacke, silicified, bleached → with relict brown cores of non-bleached core → v.f.g. biotite hornfels.
59																												Calcite veining and trace py. restricted to a single vein.

PREDATOR GROUP

PROJECT: Antimony Mtn - AJ HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 19th, 2011.

CL = chlorite

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
60			Xhb	Bed	FG	WGR	O	Py	1			Si	Per	3	QCS	½%	Qz	6			HF	Pat	1			Biot.	3			Biotite hornfels is overprinted by silicification and bleaching.
62																														
64																														
								64.80																						64.80m - 67.71m Meta-Siltstones, with relict
66			Xhb	BED	FG	GRA	O	Py	3	As	1	PR	PER	3	QCS	1%	CL	4	CC	1	Si	Pat	3	X	X	Qz	5			brown penaltered patches, that are full of vrfg. biotite and represent a biotite hornfels. Overprinted by silicification, then propylitic alt.
								67.71																						Green Black, with pink siliceous patches.
68			Xhb	BED	FG	TA	O					AR	PER	3			KLN	4			Si	Pat	3	QT	6%	Qz	6	SFR	2	67.71m - 70.73m Meta-Siltstone, argillically altered and bleached, tan colour, soft.
70								70.73m																						
72			VN		MG	GWH	O	As	6	Py	5																			70.73m - 72.69m VEIN ~40% white, euhedral prismatic, ≈ 0.5cm qtz. ~40% arsenopyrite ~20% pyrite + chalcopyrite + trace sphalerite
								72.69m																						72.69m - 74.28m meta-siltstones, tan colour
74			Xhb	BED	FG	TN	O					AR	PER	2			KLN	3												argillically altered

PREDATOR GROUP

PROJECT: Antimony - AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 20th, 2011.

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
			74.28									74.28																
75			Xhb	Bed	FG	BR	O	As	1	Py	1	Si	Pat	1	QS	1/2%	Qz	1										74.28m – 81.20m Meta-Siltstones, fine-grained (~0.1mm) with v.f.g. biotite throughout, causing the brown colouration. Biotite Hornfels? and some chlorite
77		70° Bedding																										80 – 80.20m qtz.-arsenopyrite vein, 15° t.c.a., fine-grained biotite selvages.
79																												
81	15°	40°	81.20																									
			Xq	MAS	FG	WH	O																					81.20 – 82.93, Quartzite, fine-grained, clear, qtz. sand recrystallized, with interbeds of meta-siltstone. v. 1/4 mm grain size. unaltered
			82.93																									
83		40°	Xhb	Bed	FG	GBR	O																					82.93m – 86.87m Meta-Siltstone / Meta-greywacke fine grained, unaltered, v.fine-grained biotite throughout. Biotite Hornfels?
85	45° py + calcite	40°																										
			86.87																									
87			Xq	Mas	FG	WH	O					Si	Pat	1	QT.	1%	Qz	1										86.87m – 90.20m Quartzite, light-green-white, select sand grains, qtz. veining irregular
																												@ 88.48m 2mm thick tourmaline veins 5° t.c.a.
89																												@ 87.80m <10cm argillically alt. fault gouge.

PREDATOR GROUP

PROJECT: Antimony Mtn. - AJ Vein. HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: September 20th, 2011.

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	COMMENTS / DESCRIPTION
90	15°		Xq				0																					@ 90.00m qtz - tourmaline vein, @ ~15° t.c.a
			90.80																									very blocky ground with minor gouge
92			Xhb	Bed	FG		0																					90.80m — 93.57m meta-siltstone with qtzite. interbeds, up to 4cm wide.
		60°	93.57																									
94			Xq	MAS	FG	WH	0					Si	Pat	3	QT	4%	Qz.	5			AR	Pat	2			KLN	3	93.57m - 97.70m Quartzite, predominantly quartzite with top + bottom gradational into meta-silts
	5°																											Patchy silicification as diffuse veining.
96	10°																											
		55°	97.70																									
98			Xhb	Bed	FG	GBR	0																					97.70m - 101m Siltstone, weakly metamorphosed, not silicified
100	25°		101.00																									
			GG 102.00			GBR	0																					101-102m Fault Gouge, clay altered meta-siltstones. @ 25° t.c.a. up-hole contact, down-hole contact is disintegrated.
102		60° Bedding	Sdt	Bed	FG	GBR	0																					102.00m - 106.12m grey-brown siltstone to weakly meta-siltstones
104																												

PROJECT: Antimony Mtn. - AJ Vein HOLE_ID: AJ11 -26 LOGGED BY: Shane Carlos DATE: September 22nd, 2011.

PREDATOR GROUP

INTERVAL	STRUCTURE (GRAPHIC)	LITHOLOGY (GRAPHIC)	ROCKCODE (LITHOLOGY)	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
105																														
	?		106.12																											
			GG			GY	O																							106.12m - 106.57m Fault Gouge contacts are disintigrated.
107	?		106.57																											
			Sdt	Bed	FG	GYD	O					PR	Pat	1	Qtz. chlorite	1/4 %	CL	1												106.57m - 108.66m Siltstone, some sandy component, trace chlorite on shear with qtz. vein.
			108.66																											
			GG			GY	O																							108.66m - 108.93m Fault Gouge
109	20°		108.93																											
			Sdt	Bed	FG	GY	O	Py	1																					108.93m - 134.50m Siltstone - Greywacke, unaltered, no metamorphism. Bedding at ~35° t.c.a. with shallow angle fractures + faults
111	25° fracture																													@ 111.25m fracture @ 5° t.c.a.
113		35°																												Mostly massive, with discrete < 1cm sandy beds, occurring rarely throughout.
115																														Some trace chlorite on fractures and with the occassional 'hairline' qtz-py-chl. veins.
117		35° bed																												
119																														

PROJECT: Antimony Mtn.-AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane A. Carlos DATE: Sept. 23rd, 2016

PREDATOR GROUP

INTERVAL	STRUCTURE (GRAPHIC)	LITHOLOGY (GRAPHIC)	ROCKCODE (LITHOLOGY)	MODIFYCODE (LITHOLOGY)	GRAIN_SIZE (LITHOLOGY)	COLOR (LITHOLOGY)	OXIDE_CODE (LITHOLOGY)	SULF1 (MINERALIZATION)	SULF1_PCT CODE (MINERALIZATION)	SULF2 (MINERALIZATION)	SULF2_PCT CODE (MINERALIZATION)	ALT-1 (ALTERATION-1)	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2 (ALTERATION-2)	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
120			Sdt	Bed	FG	GY	O	Py	1																					
122																														
124																														
	55°																													@ 125.60m ~1cm wide, py.-chlorite vein, ~45° t.c.a.
126	26°																													@ 126.30m 2mm wide qtz vein with diss. pyrite halos, ~1cm each side.
128		45° bed																												
130	35° fracture																													
	60°																													@ 131.50m Trace pyrrhotite in ½cm chlorite vein, ~60° t.c.a.
132																														
134	10°																													~from ~132-134.50m, colour changes from grey to light grey. More sandy but also maybe some weak bleaching

PROJECT: Antimony Mtn. - AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane A. Carlos DATE: Sept. 23rd, 2011.

PREDATOR GROUP

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
			134.50																											134.50m – 136.25m Fault Gouge. Reduced to
135	10°		GG			GYL	O																							BTW size core at 136.25m.
																														(1 3/8" ; 4.1cm)
			136.25																											
137					FG	GY	O																							136.25m – 140.10m Siltstone to Greywacke
			Sdt	BED				Py	1																					
139	32°																													@ 139.00m ½cm wide, 32° t.c.a., Py.
																														veinlet with silicified margins, ~½cm wide.
			140.10m																											
			Sdsg	MAS	FG	TN	O																							140.10m – 141.12m Sandstone, grainy-sandy
141																														surface textured
			141.12	BED	FG	GY	O																							141.12m – 143.26m Siltstone, grey, very fine grained,
			Sdt																											partly sandy, mostly silt size. (< ¼mm grains)
																														blocky fracture.
143	30°		143.26																											
			Sdsg		FG	TN	O	Py	3			Si	Pat	2	QPY	50%	Qz	5												143.26m – 144.90m Sandstone – Siltstone, very fine grained, tan,
																														with qtz-py. vein ~30° t.c.a. → (143.70m – 144.50m)
			144.90																											Tan colour is likely due to bleaching.
145			Sdt		FG	GY	O																							144.90m – 148.05m Siltstone, grey, v. f.g.,
147		60° bedding																												
			148.05																											
149			Sdsg																											148.05m – 150.17m Fine, Sandstone to Quartzite, with fine white Sericite and a brown mineral, occurring as a spotted texture.

PROJECT: Antimony Mtn. - AI Vein HOLE_ID: AJ11-26 LOGGED BY: Shane A. Carlos DATE: Sept. 23rd, 2011.

PREDATOR GROUP

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
150			150.17																											
			Sdt	BED	FG	GY	O																							150.17m - 153.48m Siltstone, weakly metamorphosed, with trace pyrrhotite
152	15°																													@ 152.60m, grey-milky qtz. vein, ~1cm wide
			153.48																											153.48m - 155.87m Sandstone, light-green-grey. very fine grained with silty component.
154	20° Fault 30°		Sdsg	MAS	FG	GRG	O	Py	2			Si	Pat	3	QT	10%														<15% matrix = greywacke.
																														154.90m - 155.45m Qtz-Tourmaline-Py. Vein, ~30° t.c.a.
156	40°		155.87 GG 156.23			GY	O																							155.87m - 156.23m Qtz-Tourmaline-Clay-Py Vein. Coincident with Fault Gouge zone. Crushed Vein.
			Sdsg	MAS	FG	GRG	O																							156.23m - 158.54m Sandstone, light green-grey, v.f.g., with silty component.
158	35°		158.54m																											158.54m - 161.54m Transitional to meta-siltstones.
		60° Bed	Sdt	Bed	FG	GY	O					PH	PAT	3	QT	25%	Qz.	4	SER	4										
160		60° Bed	161.54																											158.54m - 159.26m Vein. ~33% white qtz. ~33% thin, ~1mm long, aggregates of euhedral black tourmaline. ~33% Sericite
162	30°	65° Bed	Xhb	POB	FG	GYD	O	Po	1			Si	Per	3			Qz.	5			HF	PER	2			AND	4			161.54m - 165.66m Meta-Siltstones with interbeds of irregular (wavy) quartzite beds from 10's of cm's to <1cm in width. Intensely silicified, extremely hard and smooth. ~8% porphyroblastic, white, 1mm size grains with dark margins
164																														@ 163.60 Some fine-grained spotted texture in meta-silts, possibly andalusite. → alt. andalusite.

PROJECT: Antimony Mtn. - HJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane A. Carlos DATE: Sept. 23rd, 2011.

PREDATOR GROUP

INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
	GRAPHIC		LITHOLOGY					MINERALIZATION				ALTERATION-1									ALTERATION-2									32° t.c.a. fracture planes.
165	25°	75°					0					Si	PER	3		Ø	Qz	5			HF	PER	2			AND	4			75° t.c.a. bedding planes, defined by porphyroblastic andalusites.
			165.66 GG									AR	PER	3			KLN	5												165.66m – 165.90m Fault Gouge, 25° t.c.a. argillically altered
167			165.90 Xhb	POB	FG	GYD	0					Si	Per	3			Qz.	5			HF	PER	2			AND	4			165.90m - 170.20m, same as 161.54m – 165.66m
169																														
			170.20																											
171			Xq	MAS	FG	GYL	0																							170.20m – 172.50m Quartzite., with some micro-breccia textures
	30°		172.50																											172.50m – 173.64m, 75% Vein. Massive Sulphides Qtz.-Py.-Tourmaline-Chlorite Vein.
173	30°		VN				0																							~75% Py, ~12% Qtz, ~12% Tourmaline (black fine aggregates) ~1% chalcopyrite ~30° t.c.a.
			173.64																											
175			Xq.	MAS	FG	GYL	0																							173.64m – 176.00m Quartzite.
		70°	176.00																											
177			VN				0					PH	Per	3	QT	85%	Qz.	6	SER	5										176.00m – 177.30m Massive Silicification, qtz. vein, tourmaline (black) and massive green sericite
			177.30																											
			Xq	MAS	FG	GYL	0																							177.30m – 180.75m Quartzite., same as, 173.64m – 176.00m
179																														

PROJECT: Antimony Mtn. - AJ Vein HOLE_ID: AJ11 - 26 LOGGED BY: Shane Carlos DATE: Sept. 27th, 2011.

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INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
180	70° 40°		Xq	MAS	FG	GYL	O																							179.40m - 179.70m Qtz - Tourmaline - Py. Vein and silica replacement, following bedding planes @ 60°
			180.75																											
			GG			GY	O					AR	PAT	3			KLN													180.05m - 180.46m Tourmaline - Sericite vein, contacts are disintegrated
			181.36	MAS	FG	GYL	O																							180.75m - 181.36m Fault Gouge + broken zone argillically alt. with trace tourmaline.
182			Xq																											181.36m - 183.18m Quartzite, same as. 177.30m - 180.75m
	60° 69°	60° Bed	183.18																											
184			VN				O					PH	Per	3	SER	100%	SER	7												183.18m - 184.25m Massive Sericite - Black Tourmaline - Quartz Vein. ~55% massive sericite as whole core pieces ~15% fine-grained aggregate of black tourmaline ~30% qtz + intense silicification of bedding planes in interbeds
	39°		184.25																											
186	40°		Xhb		FG	GYL	O					Si	Per	1			Qz.	2												184.25m — 197.25m Interbedded meta-siltstones and ~20% quartzite beds → mostly < ½cm silicification and/or hornfelsing increasing down hole. Somewhat undulose beds, distorted from metamorphism — minor folding + recrystallization.
188																														
190		60° Bedding																												Fractures are at ~40° t.c.a. with apex's at about 90° to the bedding plane apex's.
192	40°																													
194																														

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INTERVAL	STRUCTURE (GRAPHIC)	LITHOLOGY (GRAPHIC)	ROCKCODE (LITHOLOGY)	MODIFYCODE (LITHOLOGY)	GRAIN_SIZE (LITHOLOGY)	COLOR (LITHOLOGY)	OXIDE_CODE (LITHOLOGY)	SULF1 (MINERALIZATION)	SULF1_PCT CODE (MINERALIZATION)	SULF2 (MINERALIZATION)	SULF2_PCT CODE (MINERALIZATION)	ALT-1 (ALTERATION-1)	ALT-1_FORM (ALTERATION-1)	ALT-1_INT (ALTERATION-1)	ALT-1_VEIN_TYPE (ALTERATION-1)	ALT-1_VEIN_% (ALTERATION-1)	ALT-1_MIN1 (ALTERATION-1)	ALT-1_MIN1_PCT CODE (ALTERATION-1)	ALT-1_MIN2 (ALTERATION-1)	ALT-1_MIN2_PCT CODE (ALTERATION-1)	ALT-2 (ALTERATION-2)	ALT-2_FORM (ALTERATION-2)	ALT-2_INT (ALTERATION-2)	ALT-2_VEIN_TYPE (ALTERATION-2)	ALT-2_VEIN_% (ALTERATION-2)	ALT-2_MIN1 (ALTERATION-2)	ALT-2_MIN1_PCT CODE (ALTERATION-2)	ALT-2_MIN2 (ALTERATION-2)	ALT-2_MIN2_PCT CODE (ALTERATION-2)	COMMENTS / DESCRIPTION
							0																							
196																														
	~40°																													
			197.25																											
			GG				0																							197.25m – 197.56m Fault Gouge, argillically alt., ~10° t.c.a.
198			197.56																											
		60° Bed	Xhb	POB	FG	GYD	0	Po	1			Si	Per	3			Qz.	6			HF	Per	3	S	1%	AND	3	Bi	1	197.56m – ~215.75m Meta-Siltstones interbedded with quartzite layers (~30%) from ½cm – 1cm wide, undulose and partly folded
200																														
																														Trace pyrrhotite following bedding plane contacts and partly disseminated.
		70° Bed																												Pyrrhotite increases down along with silicification
202																														A porphyroblastic texture is evident, up to ~5% white, ≤1mm, disseminated cloudy, grainy mineral → possibly andalusite from intense contact metamorphism → hornfelsing
204																														Also, patchy fine grained biotite
206																														
208	30° FAA																													

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INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
				GRAPHIC				LITHOLOGY				MINERALIZATION					ALTERATION-1				ALTERATION-2									
210			Xhb	POB	FG	GYD	O	Po	1			Si	Per	3			Qz	6			HF	Per	3	S	1%	And	1	Bi	1	
212																														
214																														
216		20°																												@ 216.30 biotite + pyrite occurring as patches and along thin <1cm quartzite beds
			217.08																											
218	qtz tourm. tourm.	20°	Xhb	BED	FG	GY	O	As	1			Si	Per	3	Qz.	~8%	Qz	7			HF	Per	3			Bi	1			217.08m – 222.5 Meta-siltstones, somewhat sandy with thin interbeds of quartzite. Silicification and qtz-tourmaline-trace arsenopyrite overprints hornfelsing. Somewhat 'sugary' granular, white qtz. veining. ~79° t.c.a., hairline tourmaline + arseno. veins cross-cut more massive irregular qtz. veins. Some of the qtz. veins may be recrystallized + bleached primary qtzite beds.
220																														
222	52° qtz	55° Bedding	222.50																											
224			Xhb	Bed	FG	GY	O	Po	1			Si	Per	2			Qz	6			HF	Per	3			AND ?	1	Bi	1	222.50m – 234.89m Meta-siltstone + Quartzite with some patchy pyrrhotite + biotite alteration in hornfelsed sediments. Dense, hard. 0.1 - 0.25mm sand + silt grains

PROJECT: Antimony Mtn.-AJ Vein HOLE_ID: AJ11-26 LOGGED BY: Shane Carlos DATE: Sept. 27th, 2011.

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INTERVAL	STRUCTURE	LITHOLOGY	ROCKCODE	MODIFYCODE	GRAIN_SIZE	COLOR	OXIDE_CODE	SULF1	SULF1_PCT CODE	SULF2	SULF2_PCT CODE	ALT-1	ALT-1_FORM	ALT-1_INT	ALT-1_VEIN_TYPE	ALT-1_VEIN_%	ALT-1_MIN1	ALT-1_MIN1_PCT CODE	ALT-1_MIN2	ALT-1_MIN2_PCT CODE	ALT-2	ALT-2_FORM	ALT-2_INT	ALT-2_VEIN_TYPE	ALT-2_VEIN_%	ALT-2_MIN1	ALT-2_MIN1_PCT CODE	ALT-2_MIN2	ALT-2_MIN2_PCT CODE	COMMENTS / DESCRIPTION
225	37°		Xhb	Bed	FG	GY	O	Po	1			Si	Per	2			Qz	6			HF	Per	3			AND ?	1	Bi	1	very broken-blocky rock, from 224.80 to 226.80m. in a quartzite interbed. with some py, along fractures.
227	29°	50° Bed																												
229																														@ 228.30m py.-chlorite vein, 3mm wide, ~29° t.c.a. 229.40m – 229.90m Quartzite.
231																														230.50m – 231.70m highly silicified with rare blue cordierite grains
233																														@ 232.50m patchy, fine-grained biotite
235			234.89 Xq	MAS	FG	GYL	O																							234.89m – 237.93m Quartzite, light grey, fine-grained (≤½ mm sand grains), dense, recrystallized
237	40° FRA.	70° Bed	237.93																											
239	60° Bed		Xhb	Bed	FG	GYD	O																							237.93m – 239.11m Meta-siltstone, interbedded with ~20% quartzite, ≤1cm beds. 0.1mm – 0.25mm grains of silt + sand

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			239.11	MAS	FG	GY	0								Qz	1														239.11m — 243.55m Quartzite
240			Xq																											
242																														
244																														
		60°	243.55																											
			Xhb	BED	FG	GYD	0																							243.55m — 245.78m
			245.78																											lower contact is bounded by ~20cm shearing + clay alt. @ 25° to c.a.
246	25°		Xhb	MAS	FG	GR	0	Po	2			Si	Per	3			Qz	6			HF	Per	3			Biot.	2			245.78m — 248.30m Hornfelsed beds (siltstone + sandstone layers), bright green layers (beds), alternating with red-brown biotite rich beds and pink siliceous layers. Extremely silicified. Green qtz.? or maybe some granular pyroxene. Pyrrhotite ~2%.
248			248.30																											
			Xhb	Bed	FG	GYD	0	Po	1			Si	Per	3			Qz	6			HF	Per	3			Biot.	1			248.30m — 253.90m Meta-siltstone interbedded with thin quartzite layers. mm to cm beds, finely bedded. upper contact is highly undulose - deformed. - very fine grained biotite, under microscope only
250		45° Bedding																												
252																														
254			253.90 END OF HOLE																											253.90m End of Hole.