GeoVector Management Inc. GEOLOGICAL LOG

HOLE DESCRIPTION		HOLE LOCATION			HOLE ORIENTATION	
PROJECT:	COLMENITAS	GRID Name or No:		DATUM:	WGS 84	AZIMUTH: 20.0
HOLE NO:	P-02A	NORTHING:		ZONE:	29N	INCLINATION: 87.0
LOGGED BY:	David Gómez	EASTING:		UTM Northing:	702882	FINAL DEPTH (m): 121.20
START DATE:	14-Apr-09	ELEVATION:		UTM Easting:	4163314	CORE SIZE: PQ, HQ,
FINISH DATE:	20-Apr-09	Casing (m):	0.00	UTM Elevation:	269	Magnetic Declination: 2.45 W
						CASING LEFT IN HOLE:

Depth			Rock Type					Colour			ALTERATION							Mineralisation										Structural Measurements		COMMENTS
											Alteration Intensity						Code		Sulphide					Veins							
From	To	Interval	Major Rock Code	Minor Rock Code	Main Modifier	Rock Forming Mineral 1	Rock Forming Mineral 2	Main Colour	Secondary Colour	Tertiary colour	Sericite	Carbonate Ankerite, Siderite	Silica	FEH (Hemitite)	FEM (Magnetite)	Chlorite	Limonite	Talc	Sulphide Type	Sulphide %	Main Texture	Secondary Texture	Third Texture	Vein Mineralogy	Vein Type	Main Accessory Mineralogy	Secondary Accessory Mineralogy	Third Accessory Mineralogy	Structure / Contact	ACA	
0.00	1.60	1.60	**40**											2			2													Drill Pad and soil. Broken and weathered shales
1.60	17.30	15.70	**10L**					br	grd	grl																				Laminated shales with some centimetric silt bands and some qz-veins. Silt bands presents cross bedding.
1.60	10.00	8.40												2			2														Weathered shales.
1.60																												vn	20	2.5 cm wide. Following s1
2.40																												fr	0	Vertical fracture plane with Fe Oxides.
3.00																												fr	20	Fracture plane with Fe Oxides.
3.50																												s1	30	
5.25																												s1	30	
5.25																												s2	40	OPPOSITE
5.70	10.00	4.30		FZ																										Fault zone. Broken shales and some gouge.
5.80																												fg	15	
10.00	26.40	16.40		10l	trn									1			1													Transition from weathered to fresh shales.
10.60																												s0	40	
10.60																												s1	30	OPPOSITE
10.60																												s2	10	OPPOSITE
12.00																												s0	10	
12.00																												s1	30	OPPOSITE
15.10	16.00	0.90		FZ	QVN			wt	or															qz	vs					Broken shales and qz-veins and some gouge. 50% QVN. Following s1.
16.40	17.00	0.60																										fr	70	Fe Oxides in fracture plane.
16.40																												s1	20	
17.30	26.00	8.70	**FRZ**																											Fractured shales and some gouge. Most important fractures are near vertical, and with Fe Oxides in fracture planes.
19.40																												s1	10	
21.70	22.30	0.60																										fg		Clays and some broken shales.
22.40																												s1	30	
23.40	23.45	0.05																										fg		Clays
24.00																												s1	30	
24.30																												fr	20	
24.30																												fr	70	
24.30																												fr	50	OPPOSITE
24.40																												fg	70	Following s1
26.00	98.60	72.60	**10L**					bl	gd										py	0.01	eu	do								Laminated shales with some milimetric to 0.5 cm size euhedral Py crystals.
26.50																			py	5.00	eu	do								some milimetric to 0.5 cm size euhedral Py crystals in a sigmoidal spot.
27.00																												s1	30	
28.30																												s0	10	
28.30																												s1	30	
31.20	51.20	20.00		10L	Big			bl	gd										py	0.01	do	eu								Laminated shales with some >5 cm wide silt bands. Py in these silt bands as milimetric crystals.
33.80	33.90	0.10																										fg		Gouge and some broken shales.
33.50																												s0	20	
33.50																												s1	30	OPPOSITE
36.90																												s0	50	
36.90																												s1	30	OPPOSITE
36.90																												s1	40	
37.80	38.10	0.30		FRZ																										Broken shales and some gouge.
39.70																			py		eu	do								10 cm x 3 cm Py bleb with milimetric Py crystals in the rim and around 0.5 cm size euhedral Py crystals in the core.
41.40	44.10	2.70		FZ								1					1													Gouge.
41.00	44.10	3.10										1					1							qz	vl	cb	tc		vl	milimetric veinlet
45.00																												s0	5	
45.00																												s1	20	OPPOSITE
45.10	45.30	0.20		QVN				wt			1	1												qz	vn	cb				20 cm wide. Mixed with shales. Irregular. Following roughly s1.
45.30	45.65	0.35																										fr		broken shales.
45.30	58.00	12.70		FRZ																										some fractures with broken shales and some gouge.
46.75																												vn	60	1.5 cm wide. Sheared edges
48.50																												vl	15	1 cm wide.
46.90	47.00	0.10																										fr		Broken shales and some gouge.
48.40	48.75	0.35																										fr		Broken shales and some gouge.
49.00	49.30	0.30																										fr		Broken shales and some gouge.
50.00	50.20	0.20																										fr		Broken shales and some gouge.
48.70																												s1	20	
51.10																												s0	50	
51.10																												s1	20	OPPOSITE
51.40	52.00	0.60																										fr		Broken shales and some gouge.
52.40	53.20	0.80		QVN				wt	grl		1	1				1								qz	vn	cl	cb			Massive vein with some shales inside. Following roughly s1.
54.00																												s1	10	
55.00	55.45	0.45																										fr		Broken shales.
56.00	57.40	1.40																										vl	0	some milimetric veinlets more or less parallel to core.
57.40	57.85	0.45		QVN				wt	grl		1	1				1								qz	vs	cl	cb		vn	30	semimassive viens. Following s1. 4 cm max wide.
56.80																												s1	30	
56.80																												s2	20	OPPOSITE
58.40	64.80	6.40																										vl		20% veinlets. Normally perpendicular to s1. milimetric wide.Qz + Cb and some sulphides.
60.70																			py	1.00	bl	in						vl	50	1 cm wide. Some btroken shales inside. Some Py blebs infill.
61.80	62.40	0.60		FRZ																								vl		broken shales with veinlets. 40% vl. Some brecciation in the vl.
61.50																												s1	25	

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											Alteration Intensity						Code		Sulphide					Veins								
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63.00																													s1	30	
64.80	71.10	6.30		FRZ																											Broken shales with some faults.
66.50	67.10	0.60																											ft		Broken shales and some gouge.
67.30	67.80	0.50																											ft		Broken shales and some gouge.
68.20	68.30	0.10																											ft		Broken shales and some gouge.
68.75	68.90	0.15																											ft		Broken shales and some gouge.
69.00	69.20	0.20																											ft		Broken shales and some gouge.
70.00	70.10	0.10																											ft		Broken shales and some gouge.
68.10																													s1	20	
72.50																													s0	30	
72.50																													s1	20	
74.00	74.80	0.80																											fr	10	Broken shales. Following s1
74.50																													s1	10	
75.50	76.85	1.35		FZ																											Gouge and some broken shales.
76.40																													fg	10	Following s1. 1.5-3 cm wide.
81.00																													s1	25	
82.10	85.30	3.20		FZ																											Broken shales and some gouge.
83.60	87.50	3.90		QVN				wt	grl		1	1				1			py	0.01	in	bl		qz	vs	cl	cb		vl		Massive veins and some milimetric veinlets, perpendicular to core. 16 cm max wide. 25% QVN.
85.20																													vn	40	5 cm wide. Massive vein. Following s1.
86.70																			py	2.00	bl	in							vn	40	3 cm wide. Massive vein. Following s1. Py bleb at the bottom of the vein, just in contact with the shales.
87.20																													vn	40	16 cm wide. Massive vein. Following s1.
88.75	90.65	1.90		FZ	QVN			wt																qz	vs	cl	cb				Faults and some fractures. 10%QVN. Following s1. massive. 3 cm max wide.
89.50																													fg	25	Following s1. 1 cm wide.
89.90																													fg	50	Following s1
90.20																													vn	30	3 cm wide. Following s1.
90.80																													s0	40	
90.80																													s1	30	OPPOSITE
90.80																													s2	15	
92.00	92.60	0.60		FZ																											Broken shales and some gouge.
93.20	93.40	0.20																											vl		Some milimetric veinlets following s2 and perpendicular to it, presenting some brecciation in shales.
95.10																													s1	20	
95.10																													s2	20	OPPOSITE
96.40	97.20	0.80		QVN				wt	grl		1	1				1								qz	vs	cl	cb		vn	10	Massive veins. It is the same vein with some branches. Following roughly s1.
97.20																													s1	10	
97.75																													vn		Flamboid. Following s1
98.60	121.20	22.60	**FZ**																												Broken shales and some fault gouges. Mostly faults are following s1.
98.60	99.10	0.50																											fg	50	
101.75																													s1	30	
101.75																													vl	70	Perpendicular to s1. milimetric veinlet in silt band.
101.40	101.50	0.10																											fg		Clays
101.90	102.20	0.30																											ft		Broken shales and gouge.
99.20	101.20	2.00																											fr		Broken shales and gouge.
102.90	105.00	2.10																											fr		Broken shales and gouge.
105.00	106.50	1.50																											fg		Fault gouge. A lot of clays.
106.50	108.80	2.30																											ft		Broken shales and gouge.
109.00	109.80	0.80																											fr		Broken shales and gouge.
111.10	111.15	0.05																											fg	50	5 cm wide. Clays.
111.20	111.70	0.50																											fr		Broken shales.
111.70	112.20	0.50																											ft		Broken shales and gouge.
112.40	116.00	3.60																											ft		Broken shales and gouge. Following s1.
114.50																													s0	60	
114.50																													s1	40	
116.90																													s0	30	
116.90																													s1	20	
117.30	117.90	0.60																											fr		Broken shales.
118.00																													fg	20	1 cm wide.following s2
118.00																													s2	20	
118.00																													s1	50	
118.00	120.20	2.20																											fg		Gouge and some broken shales.
120.25																													fg	15	Following s1
120.70	121.20	0.50																											fg		Gouge and some broken shales.
120.60																													s1	25	
121.20	_	**EOH**	**EOH**																												**EOH**