GeoVector Management Inc. GEOLOGICAL LOG

HOLE DESCRIPTION		HOLE LOCATION			HOLE ORIENTATION	
PROJECT:	COLMENITAS	GRID Name or No:		DATUM:	WGS 84	AZIMUTH:	200.0
HOLE NO:	P-01	NORTHING:		ZONE:	29N	INCLINATION:	75.0
LOGGED BY:	David Gómez	EASTING:		UTM Northing:	4162707	FINAL DEPTH (m):	401.40
START DATE:	8-Jan-09	ELEVATION:		UTM Easting:	702740	CORE SIZE:	PQ, HQ
FINISH DATE:	18-Jan-09	Casing (m):	0.00	UTM Elevation:	235	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	Silicia	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	1.85	1.85	40					br																						Clays + soil. Some subangular fragments of shales.
0.80	1.85	1.05		40				br	or																					Clays + Soil.
1.85	7.90	6.05	10l					gr	gl					2			2		py	0.01	bl	do	eu							Weathered shales. Little fractures with an alteratio aureole (green colour). Hem in planes. Clays in some fractures. Some blebby and oxidized Py in silt bands
3.55																												s1	35	
4.60																												s1	25	
6.40																												s0	15	
6.40																												s1	30	
6.40																												fr	0	
4.15																												s0	90	
7.00																												s0	0	
8.50																												s1	40	
8.50																												s0	40	
3.80				QVN				wt																qz	vn				vn	40	
4.00				QVN				wt																qz	vn				vn	40	
4.90	5.00	0.10		QVN				wt	rd					2										qz	vs				vn	35	60% Qz veins.
5.80	7.90	2.10		10l																											The rock is not so altered and weathered. Green fractues are decreasing in intensity.
4.70																												s2	40	OPPOSITE.
7.90	8.90	1.00	10b					gd	br					1					py	0.01	bl	eu								Banded shales. Py in silt bands. Sometimes Py is washed and you can see the hole left.
8.40																												s0	30	
8.40																												s1	30	
8.90	46.50	37.60	10l					gd						1				1	py	0.01	bl	in									Grey shales, with low silt bands. Py as blebs (0.1-1 cm size). Some mm carbonate irregular stringers.
9.10																												fr	10	with hematites.
9.10																												s0	20	
9.10																												s1	50	
9.10																												s2	25	OPPOSITE.
9.80	11.50	1.70		10	trn									1																
11.50																														RED-OX LEVEL.
12.97																												sr	65	Qz
14.35	14.60	0.25		QVN				wt	gr	gd									py	0.01	bl			qz	vn	cl				Irregular, mixed with shales and Chlorite. Py in blebs in the QVN flamboids.
14.75	18.70	3.95																										frz		
15.60																												s0	60	
15.60																												s2	0	
15.60																												s1	60	
17.60	18.10	0.50																										vl	20	Filled with white Qz and pale brown Cb. There exist 4 veinlets with 2-3 mm wide
20.60	22.80	2.20																										frz		
19.10																												s1	55	
19.10																												s2	20	OPPOSITE
22.40				QVN				wt	gr	gd														qz	vs				vn	60	
23.50																												s0	20	
23.50																												s1	40	
23.50																												s2	15	OPPOSITE
25.00	25.20	0.20																										frz		
26.35																												s0	10	
26.35																												s2	10	OPPOSITE
26.35																												s1	40	
27.20																												s0	50	Being S1 and s2 as the last.
29.40	29.70	0.30		QVN				wt				1						1						qz	vn				vn	20	5 cm wide.
29.70																												fg	20	
30.70																												s0	35	
30.70																												s1	40	
31.00	32.50	1.50						wt	cr										py	0.01	in								vl		milimetric irregular stringers. One of them dipping 10º (1 cm wide). Qz+Cb
33.00				QVN				wt																qz	vn				vn	20	2 cm wide
33.00	34.20	1.20		QVN															py	0.01	do	in		qz	vs				frz		little irregular qz veinlets.
34.50																												s1	65	
34.50																												s0	65	
34.50																												s2	15	OPPOSITE
35.00	35.20	0.20																										frz		Fracture zone with Qvn 1 cm wide, and dipping 10º.
36.15																												s0	10	
36.15																												s1	60	
36.15																												s2	15	OPPOSITE
37.10																												s0	55	
37.10																												s1	55	
37.80	38.80	1.00		FZ				bl																						Fault zone with gouge, from 38.20 m depth.
37.80	38.20	0.40																										sr		a lot of irregular qz stirngers
41.85	42.60	0.75		FZ				bl																						Fault zone with gouge and one broken QVN, 5 cm wide.
42.60	44.90	2.30		QVN				wt	grl															qz	vs	cl			vn	50	40% QVN
41.70																												s1	40	
41.70																												s0	40	
41.70																												s2	10	OPPOSITE
46.50	50.00	3.50		QVN		gph		wt	grl		1							1						qz	vs	cl				20% QVN. Some big QVN (around 28 cm wide) dipping 90º, an other 2-3 cm wide following s1. Others are vertical, cutting S1 (5-6 cm wide). High content of Gph
48.50																												vn	10	
48.00	62.00	14.00																	py	0.10	do	bl	eu							Increasing Py content, almost in silt bands as diss py. Sometime as blebs or as euhedral cristals.
46.50	59.10	12.60	10l			gph																								As before but with more darker graphitous bands.
50.50																												s1	35	
50.50																												s0	35	
55.25																												s1	30	
55.25																												s2	30	OPPOSITE
54.50	55.70	1.20		QVN																				qz	vs	cl	cb			Several flamboid qz veins, following s1, and deformed
55.00																												vn	40	
55.00																												vn	20	
56.70																												s1	30	
56.70																												s2	15	OPPOSITE
59.10	66.00	6.90	10sh	QVN								1				1		1						qz	vs	cl	cb			Shear zone. The rock is darker and softer. 30-40% Qz veins (18-20 cm max wide). Several fault gouges.
60.45																												fg	35	
64.80																												fg	45	
66.00	90.50	24.50	10l		gph														py	0.01	do									High and complex deformation signature.
66.45																												s2	0	
66.45																												s1	25	
69.80	71.80	2.00		QVN				wt	grl							1		1						qz	vs	cl	cb			15% Qveins. 15 cm max wide. Sometimes parallel to core (2 cm wide), sometimes following s1 and sometimes normal to core.
70.60																			py		eu	bl	do							1 cm sulphides (Py) band as euhedral cx (1 cm max size) , following silty bands and
72.80	72.95	0.15						bl																				fg		Fault gouge with little qz stringers.

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	
73.10																													s1	40	
73.10																													s0	40	
73.10																													s2	0	
73.10																			py		eu	bl	do								2.5 cm sulphide lens (Py). Inner part is massive. External part is an euhedral rim.
73.35	73.85	0.50		QVN				wt																qz	vs	cl	cb				little qz stringers untill 73.60 m depth. From 73.60 to 73.85 is a qz vein.
75.20																													ft	25	
75.20																													s1	20	
77.80	78.00	0.20		QVN				wt	grl															qz	vn	cl			vn	55	
78.30	78.70	0.40		10l	shz																										Sheared and boudinaged silt band.
81.50																													s1	30	
83.50																													s0	50	
83.50																													s1	30	
84.50																													s1	20	
84.50																													s0	70	
85.80																													s0	0	
85.80																													s1	15	
85.90	86.35	0.45		QVN				wt	grl															qz	vs	cl	cb				60% Qvn
86.30																													vn	60	2 cm wide
86.85	87.20	0.35		QVN				wt	grl															qz	vn	cl	cb		vn	30	
88.20	88.30	0.10		QVN				wt	grl															qz	vs	cl	cb				irregular
88.60																													s1	45	
89.00																													s1	5	
88.60																													s2	0	
88.60																													s0	45	
89.00																													s0	5	
91.50																													s1	20	
91.50																													s0	20	
93.30	93.60	0.30																											frz		
94.10																													s0	30	
94.10																													s1	20	
95.40	95.90	0.50																											frz		Broken pieces. No gouge.
90.50	105.30	14.80	10b					gd											py	0.01	bl	eu	do								Al lot of light grey silt bands in dark grey shales. Silt bands with cross stratification, slumps, and other sedimentary structures.
98.20																													s1	45	
98.20																													s0	0	
98.50	99.40	0.90																											sz	15	some little Qz+Cb stringers. Milimetric. Sometimes irregular (almost) and sometimes dipping 15º (3 mm wide). <1% stringers
100.50																													s2	25	OPPOSITE
100.50																													s1	35	
101.80	103.35	1.55																											sz		irregular Qz+Cb stringers. Milimetric. <1% stringers.
103.35																															
103.35	104.85	1.50		QVN				wt	grl															qz	vs	cl					30% Qveins. Almost veins following s1, others are irregular and flamboid. 7 cm. Max wide.
103.80																													vn	65	1 cm wide
105.30	113.70	8.40	10sh					gd											py	0.01	bl	eu									Py in silt fragments as blebs. Sheared zone. Some euhedral cx in the matrix of the rock.
109.10																													s1	30	
107.00																													s1	40	
110.20																													s1	30	
112.30																													s1	40	
113.70	119.40	5.70	10b																												
114.00																													s0	10	
114.00																													s1	45	
115.60																													s0	30	
115.60																													s1	45	
119.00																													s0	15	
119.00																													s1	45	
119.05	119.20	0.15																	py	2.00	eu	bl									in a silty band.
119.40	123.85	4.45	FZ	QVN				wt	gd															qz	vs	cb			fg		Fault zone with gouge and Qvn: 25% QVN. Irregular. Roughly following s1
123.85	140.85	17.00	10b																py	0.01	eu	bl	do								some Py as blebs, euhedral cx(<0.5 cm size) and disseminated
124.50																													s1	45	
124.50																													s2	10	
125.80																													s1	70	
125.20	126.40	1.20																1											sz		1% of milimetric Qz stringers. Irregular.
127.30																			py		ms										massive Py spot. 3 x 2 cm size.
127.00	127.20	0.20		QVN				wt											py	0.01	in	eu		qz	vs	cb	cl				
127.70				QVN				wt	cr										py	0.01	in	eu	bl	qz	vn	cb			vn	30	1 cm thickness
128.15				QVN				wt	cr															qz	vn	cb			vn	30	2-4 cm thickness
129.40				QVN				wt	cr															qz	irr	cb			vn	70	3 cm thickness
129.45	129.60	0.15																											fz		
130.50				QVN				wt																qz	vn	cb			vn	25	3 cm thickness
130.50																													s1	40	
131.25				QVN				wt																qz	vs	cb			vn	30	5 cm max thickness
131.85	132.30	0.45		14				wt	gl																				s1	90	
131.50																													s1	35	
131.30				QVN				wt																qz	vn	cb					7 cm thickness
131.70	131.95	0.25		QVN				wt																qz	vs	cb			vn	20	50% QVN
131.70	131.95	0.25																											vn	80	
131.25																			py	0.01	eu	bl	do								2 cm Py band with euhedral cx and blebs.
132.50	132.70	0.20		QVN				wt	cr															qz	vs	cb			vn	90	
132.50	132.70	0.20																											vn	40	
134.10																													s1	40	
134.10																													s0	80	
134.10																													s0	0	
134.10																													s0	60	OPPOSITE
135.40	136.30	0.90		FZ																											Fault zone
135.40	140.85	5.45		QVN				wt	grl										py	0.01	do			qz	vs	cb	cl				15% Q veins. 30 cm max thickness. Associated to a fault. Almost veins dip 90º, irregular and with 5 cm thickness, others are cutting s1, dipping 20º.
140.85	146.30	5.45	10sh																												
141.10																													s1	60	
142.50																													s1	40	
145.00																													s1	50	
146.30	180.10	33.80	10b																py	0.01	bl	eu									Big blebs of Py at @ 148.65. 3 x 4 cm size.
146.70																													s1	40	
146.70																													s2	20	
147.50																													s0	90	
147.50																													s1	70	
147.50																													s2	0	
141.65	141.90	0.25		14															py	0.01	bl										big Py bleb (1 x 2 cm size) at @ 141.80 m depth
148.30																													s1	60	
146.90																													s1	25	
146.90																													s0	50	
146.90																													s2	30	OPPOSITE
150.50	150.60	0.10		QVN				wt																qz	vn	cl			vn	60	10 cm thickness. Irregular
150.00				QVN				wt																qz	vn				vn	50	2 cm thickness. Irregular
151.50																													s1	30	
152.25				QVN				wt																qz	vn				vn	60	1 cm thickness
153.00																													s1	45	
154.15																													s0	60	

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	
154.15																															s1	40	OPPOSITE
154.50	154.70	0.20		QVN					wt	gl		1					1			py	0.10	do	in		qz	vs	cl					Irregular. 60% Qveins. Roughly following s1
154.50	154.70	0.20																		po	0.10	do	in									
154.50	154.70	0.20																		sph	0.01	do	in									
154.50	154.70	0.20																		cpy	0.01	do	in									
154.70	155.50	0.80		10b	shz															py	0.01	in									vl		Shear zone in shales with sulphides in milimetric qz veinlets (sub-parallel to s1)
154.70	155.00	0.30																		po	0.01	in											
155.40																															s1	40	
155.40																															s2	30	OPPOSITE
155.50	155.70	0.20		QVN					wt											po	8.00	bl			qz	vs							Irregular vein set with sulphides. Strong relationship with q-veins (irregular) and following s1.
155.50	155.70	0.20																		py	2.00	bl	eu									
155.50	155.70	0.20																		cpy	2.00	do										
155.80	156.00	0.20		QVN					wt											po	20.00	bl			qz	vs					vn	30	Irregular vein set with sulphides. Strong relationship with q-veins (irregular) and following s1.
155.80	156.00	0.20																		py	1.00	bl	eu									
155.80	156.00	0.20																		cpy	0.50	do										
156.00	156.20	0.20		QVN					wt											py	0.01	bl	eu		qz	vs					vn	20	Sulphides in milimetric veinlets, and as blebs near Q-vein. 2 cm max thickness.
156.35	156.70	0.35		QVN					wt											py	15.00	bl	do	eu							vn	30	Following s1 and Qz i nveins.
156.35	156.40	0.05																		po	1.00		do							vl		in milimetric qz veinlets.
157.60	158.00	0.40		QVN					wt			1								po	0.10	do			qz	vs					vn	25	Milimetric veins. Irregular. Two preferential dips: 40 and 80. Po almost in a qz vein at @157.60 m depth (1.5 cm wide).
157.60	158.00	0.40																		cpy	0.01	do	bl								vn	40	Cpy in qz vein at @ 157.60 m depth (almost)
157.60	158.00	0.40																		py	0.01	do	bl								vn	80	py in qz vein at @157.60 m depth (disseminated) and as a blebs (1 cm max size) in the rest.
157.60	158.00	0.40																		sph	1.50	do	bl										Sph in qz vein at @ 157.60 m depth
157.60	158.00	0.40																		gn	0.01	do											Gn in qz vein at @ 157.60 m depth
158.45	162.80	4.35		QVN					wt	grl		1								py	0.10	do	bl	eu	qz	vs	cl				vl		A lot of milimetric qz veinlets. From 158.45 to 158.7: big (20 cm wide) Qz vein. From 159.65 to 159.85: 10 cm wide qz-vein. Py is in some of these veinlets as blebby-euhedral cristals at @ 159, 159.3 and 161.0 m depth. Po is disseminated as little blebs in the same veinlets
158.45	162.80	4.35																		po	0.01	do											
159.30																															s1	30	
160.00																															s1	20	
161.00																															s1	50	
161.90																															s1	70	
160.90																															s2	20	
162.90	163.45	0.55		10b	shz																										s1	90	
163.50																															s0	90	
163.50																															s0	30	
163.50																															s1	65	
164.00																															s0	20	
164.00																															s1	70	
164.70																															s0	70	
164.70																															s1	70	
166.00																															s1	50	
166.00																															s2	20	
166.30				QVN					wt																qz	vn					vn	15	2.5 cm thickness
166.80																															s1	65	
167.50																															s1	40	
167.50																															s2	30	OPPOSITE
170.50																															s1	35	
170.50																															s0	35	
170.50																															s2	10	OPPOSITE
172.90				QVN					wt	cr															qz	vn	cb				vn	50	2 cm thickness
158.00	158.80	0.80																		py	0.01	bl	do										disseminations related to milimetric qz-veinlets dipping 0 to 20º, following s1. The big QVN has only diss Py. Sph and Gn is surrounding the big QVN.
158.00	158.80																			sph	0.01	bl	do										
158.00	158.80																			gn	0.01	bl	do										
173.55	174.00	0.45		10b	shz																												
174.25				14					grl																						s0	25	Quartzite band, 10 cm wide. Folded.
174.45				14																											s0	60	
175.00				14																											s0	0	
175.00				QVN					wt											sph	0.10	bl											1.5 cm thickness. Big Sph cristal of 1.5 cm size. All sulphides inside the QVN
175.00																				gn	0.01	bl											
175.00																				po	0.01	do	bl										
175.00																				py	0.01	do	bl										
175.15	175.60	0.45		10b	shz																												
175.60																															ft	70	sin sedimentary fault
175.80																															s0	20	
175.80																															s1	70	
177.00																															s1	60	
177.00																															s0	60	
174.20	176.75	2.55																													vl	70	milimetric qz + cb veinlets. 10%
177.00	185.00	8.00		QVN					wt	grl	cr														qz	vs	cl	cb				Vein set of Qz veins. Irregular. Some of them are dipping 0º, another are parallel to s1 (dipping 70º).
179.10																				py	0.01	bl											as blebs inside qz veins. 0.5 cm size
179.10																				sph	0.01	bl											milimetric blebs inside qz veins.
180.10	197.70	17.60	**10sh**																														boudinaged fragments of shales (silt bands)
184.20																															s1	10	
186.80																															s1	40	
186.85																				py		bl	eu										Py bands following s1. 1 cm thickness.
187.55	188.00	0.45		QVN					wt	cr										py	0.01	do			qz	vs	cb				vn	25	40% veins
188.00	189.60	1.60																		py	0.01	bl	eu	do							vl		milimetric Qz+Cb veinlets, normally following s1. Py as blebs is common.
190.70	191.00	0.30		QVN					wt	cr										py	0.01	do			qz	vs	cb				vl		milimetric Qz-veinlets. Qz veins (2-3 cm wide) .10% veins+veinlets
190.80																															s0	90	
190.80																															s1	90	
191.20																															s0	30	
191.20																															s1	60	
191.90	192.00	0.10		QVN					wt	cr																					vn	60	
191.70																															s0	50	
191.70																															s1	45	OPPOSITE
192.20																															s0	20	
192.20																															s1	50	
192.40	193.20	0.80																		py	2.00	eu	bl										1 cm max size
192.40																															s1	60	
192.40																															s0	50	
192.60																															s0	50	
192.60																															s1	70	
193.10																															s0	20	
193.30																															s0	10	
193.30																															s1	30	OPPOSITE
193.80																															s1	30	
193.80																															s0	30	
195.50																															s0	10	
195.50																															s1	25	
196.85	197.00	0.15		QVN					wt	grl	cr														qz		cl	cb			vn	40	
197.30																															s0	10	
197.30																															s1	50	
197.30	197.45	0.15		QVN					wt	grl	cr														qz		cl	cb			vn	45	
197.70	239.75	42.05	**10b**																														
198.00																															s0	25	
198.00																															s1	15	

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	
198.30	201.50	3.20		QVN				wt	grl	cr														qz	vs	cl	cb		vn	25	30% QVN. Big veins mixed with clays and chlorite. Big masses of sulphides, almos Po, forming a mixture with chl + qz veins + shales (web texture).
199.90	201.05	1.15																	po	10.00	bl	ms										2 generations of py- Big blebs and massive. The former is older. Big masses are following roughly S1.
199.90	201.05	1.15																	py	5.00	bl	eu	do									
199.90	201.05	1.15																	cpy	1.00	bl											
202.00																														s0	80	
202.00																														s1	50	
203.40	203.90	0.50		QVN				wt	grl	cr									py	1.00	bl	eu		qz	vs	cl	cb		vn	50	40% veins. Mm-cm veins, following s1.
203.90																														vn	30	
204.95	205.10	0.15		QVN				wt	grl	cr														qz	vs	cl	cb		vn	50	5 cm wide.
205.60																														s0	0	
205.60																														s1	5	
206.10																														s0	60	
206.10																														s1	60	
206.20	206.35	0.15																	po	85.00	ms											massive Po associated with qz, and subordinated Cpy, following s1 . It grows from a qz-vein. There exist some milimetric veins with Po+Py+Cpy.
206.20	206.35	0.15																	cpy	2.00	bl											
206.20	206.35	0.15																	py	5.00	bl	eu										
206.35	206.70	0.35																	py	2.00	do									vl	30	Qz veinlets with milimetric blebs of Py+Cpy.
206.35	206.70	0.35																	cpy	0.50	do											
206.80	207.00	0.20		QVN				wt	grl										py	0.10	do			qz	vn	cl			vn	50	
206.80	207.00	0.20																	cpy	0.01	do											
207.40																														s0	90	
207.40																														s1	70	
208.25	212.50	4.25		QVN				wt	cr															qz	vs	cb	cl				milimetrit to 1.5 cm wide. 20% Q-veins, normally following s1, excepting at @210.5 m depth (1.5 cm wide) q-vein.
211.35	211.45	0.10		QVN				wt	grl	cr									po	0.10	bl			qz	vn	cl	cb				
211.35	211.45	0.10																	cpy	0.10	do											
211.10	211.15	0.05																	py	0.10	in	bl								vl	50	sulphides in little qz-veinlets following s1.
211.10	211.15	0.05																	cpy	0.10	in	bl								s1	50	
214.40																														s1	50	
215.35	215.40	0.05		QVN				wt	cr															qz	vn	cb			vn	70	4 cm wide main vein, with some flamboids.
216.00																														s1	50	
216.75	217.30	0.55																												frz		
216.80																			py	0.10	bl									s1	60	2 Py generations. Blebby is secondary. Related to little qz veins or veinlets, following s1.
216.80																			cpy	0.01	bl											
216.80																			sph	0.01	bl											
218.40	218.60	0.20																												fz		The rock is faulted. Soft. gouge.
218.60	221.20	2.60											1						py	1.00	bl			qz	vs					vl		milimetric qz-veins with some Py+Cpy. At @219.25, big Py spot of 2.5 cm max size. The texture in the big spot of the Qz is like a stockwork or webby.
218.60	221.20	2.60																	cpy	0.10	bl											
221.35	221.50	0.15		QVN				wt	grl	cr									py	0.01	in			qz	vn	cb			vn	90	
222.50																														s1	60	
222.50																														s2	20	OPPOSITE
224.90	227.10	2.20																	po	8.00	bl	ms								vl		milimetric qz-veinlets with Py + Po + Cpy, following s1- Big concentration at@225.8 to 226. There exist milimetric veinlets with sulphides untill big mass, and when we pass it, more veinlets.
224.90	227.10	2.20																	py	2.00	bl											
224.90	227.10	2.20																	cpy	6.00	bl	ms										
225.00																														s1	50	
226.15																														s1	25	
227.00																														s1	60	
197.70	238.10	40.40									2																					
239.75	253.20	13.45	10l																													Laminated grey shales. No sericitation.
227.10	235.75	8.65		QVN																				qz	vs	cl					20% veins. Almost irregular, but some of them are following s1. milimetric to centimetric wide.
230.20																														vn	15	2.5 wide
230.75																														vn	60	3-5 cm wide
232.60																														vn	50	4 cm wide.
233.65																														vn	40	3 cm wide
227.30	231.00	3.70																	cpy	5.00	ms	bl								vl		Associated with qz-veins and sheared zones. Sulphide masses in 5-8 cm wide qz-vein and in veinlets.
227.30	231.00	3.70																	py	2.00	ms	bl	eu									at@228.25 m depth: massive band dipping 50º, with Cpy, Py, Po and Gn (around 1 cm wide).
227.30	231.00	3.70																	po	0.50	ms	bl										at@229.05 m depth: massive spot, with Cpy (around 5 x 2 cm size) and subordinated masses of Cpy surrounding over and above 10 cm.
227.30	231.00	3.70																	gn	0.05	bl											at@230.75 m depth: 5 x 5 cm semimassive Cpy spot with Po and Py.
229.50																														s1	10	
228.70																														s1	40	
228.70																														s2	20	OPPOSITE
232.00																														s0	55	
232.00																														s1	40	
234.50																														s1	50	
235.80																														s0	15	
235.80																														s0	55	
235.80																														s2	5	
236.00																														ft	10	Fault. Broken pieces. Some gouge.
236.00	236.40	0.40											3																			Py and Cpy in the silicified zone.
236.00	237.15	1.15																	py	17.00	bl	ms	eu	qz						vn	15	2 Py generations: blebs and euhedral cx (1cm max size). Sulphides In the silicified zone and in the qz-veins (1 cm wide at @236.45 m depth), following s1 as massive bands, and blebs.
236.00	237.15	1.15																	cpy	3.00	bl											
236.00	239.75	3.75		10l	shz																											
237.15	239.75	2.60																	Py	5.00	bl	eu	bl							vl		big crystal of Py around 1.5 cm size, and some blebs. (3 x 1.5 cm at @238.70 m depth) and in milimetric qz veinlets.
238.50																														s1	30	
238.90	239.30	0.40		QVN				wt	cr															qz	vs	cb					
239.75																														ft		sedimentary fault. Hole of 2 x 4 cm with a qz-geoda
240.80																														s1	30	
240.80																														s0	20	
241.30	245.85	4.55																	py	1.00	in	bl								vl		qz veinlets, sometimes with associated Py. Normally following s1. At @ 242.65 m depth (0.5 cm wide) Py bands with 2 generations of Py.
243.40																														s1	75	
243.40																														s2	20	
245.45																														sr	10	qz stringer. Milimetric.
246.75	247.45	0.70		QVN	shz			wt			1								py	3.00	eu	bl		qz	vs	cl	cb			vl	10	Qz vein set + veinlets. Milimetric-centimetric. 25% Qz veins. Sulphides related to a qz-vein at@247.10 m depth.
246.75	247.45	0.70																	sph	0.80	bl											
246.75	247.45	0.70																	cpy	0.10	bl											
247.20																														s2	60	
248.50																														s0	20	
248.50																														s1	60	
249.40																														s0	70	
249.40																														s1	40	
249.50				QVN				wt											sph	0.01	bl			qz	vn				vn	55	1.5 cm wide. Little spot of Sph with 2 mm size.
250.70	253.20	2.50		QVN				wt											py	1.00	bl								vl		Qz-veinlets and some qz-veins (1-3 cm wide), following s1. 15% Qz veins and veinlets. Most important veins at @ 250.8 (2 cm wide), 251.15 (1.5 cm wide), 251.35 (3 cm wide), 252 (3 cm wide) with primary and secondary Py.
252.00																														vn	20	
253.20	260.80	7.60	FRZ								1						1															Fracture zone with a fault and milimetric qz veinlets.
253.20	255.30	2.10		FZ																										fz		Fault zone + gouge
256.60	256.80	0.20																												fz		gouge
257.70	257.85	0.15																												fz		gouge
259.40	259.60	0.20																												fz		
255.30	255.70	0.40		QVN				wt	grl	cr									py	0.01	bl	eu		qz	irr	cl	cb				irregular qz-veins.
257.20	257.30	0.10		QVN				wt	cr															qz	vn	cl	cb		vn	50	7 cm wide.
257.70				QVN				wt	cr															qz	vn	cb			vn	5	3 cm wide
258.50				QVN				wt	cr															qz	vn	cb			vn	70	4 cm wide
258.35	260.80	2.45						wt	cr										py	0.01	bl	eu								vl		Qz + Cb milimetric and irregular veinlets. 10% qz.
260.80	264.00	3.20	10b								1																					
264.00	338.30	74.30	10l																py	0.01	bl	eu										Most of Py is in silt bands and in milimetric sheared qz-veinlets. The rock hasn't so much silt bands. Sometimes there exist a concentration of 10-20 cm wide of sheared silt bands wiht a consequent sulphide increase.

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	
263.30	264.00	0.70		10b	shz																													
262.20																																s1	75	
262.20																																s2	40	OPPOSITE
262.20																			py		bl	eu												0.5 Py vein dipping as s1
262.20																			cpy		bl													
263.10																																s1	30	
263.10																																s2	20	OPPOSITE
263.30	264.00	0.70		QVN															py	10.00	ms	bl		qz	vs	cb	cl							massive sulphides mixed with Qz-veins. Masses not so big as before. 20% qz-veins: 12 cm max wide (263.80-263.95 m depth).
263.30	264.00	0.70																	cpy	1.50	ms	bl													
263.30	264.00	0.70																	sph	1.00	ms	bl													
264.00	265.30	1.30																														sr	30	milimetic qz-stringers, 10-15 cm spacing.
264.50																																s1	20	
264.50																																s2	20	OPPOSITE
267.60																																s1	40	
267.60																																s0	30	
267.60																																s2	0	
269.90	270.00	0.10		QVN				wt	cr															qz	vn	cb						vn		7 cm thickness
272.10																																s0	40	
272.10																																s1	70	
272.10																																s2	10	OPPOSITE
273.60																																s0	30	
273.60																																s1	50	
275.25																																s1	60	
275.25																																s0	0	
275.25																																s2	10	OPPOSITE
277.30																																s1	50	
277.30																																s2	20	
278.40	279.00	0.60									1																					vl		milimetric and irregular qz-veinlets + qz stringers. 5% of both.
279.40	280.15	0.75		QVN				wt	cr		1								py	0.50	bl	eu		qz	vs	cb								10% veins. Sulphides in silt bands and in 0.5 to 2 cm wide veins. Normally following s1.
279.70																																vn	20	
279.90																																vn	30	
281.00	281.25	0.25		QVN				wt	cr															qz	vn	cb						vn	60	
282.90																																fr	30	
283.40																																s0	20	
283.40																																s1	40	
284.50																																s1	40	
284.50																																s0	20	
286.00	290.30	4.30		QVN	shz			wt	cr															qz	vs	cb	cl					vl	30	40% qz veins + milimetric veinlets (Qz+Cb).
286.95	287.65	0.70									1								py	20.00	bl	eu	in												Sulphides in a sheared qz-veins and qz-cb veinlets. Bigger concentrations are surrounding 2 qz-veins (3-4 cm wide) at @ 287 and @ 287.4 m depth.
286.95	287.65	0.70																	sph	2.50	bl	in													
286.95	287.65	0.70																	gn	0.01	bl														
292.70																																s0	60	
292.70																																s1	40	
292.70																																s2	20	OPPOSITE
293.60	296.55	2.95		QVN				wt	cr										py	0.10	bl	eu		qz	vs	cb	cl							10% veins + qz mm veinlets, normally following s1 (sheared). Big blebs and euhedral crystals of Py (1.5 cm max size). 4 cm max qz vein wide.
295.30																																s1	40	
295.30																																s0	40	
295.30																																s2	5	OPPOSITE
295.65	302.80	7.15									2							1																	
296.90																																s1	30	
299.00																																s1	25	
299.50																																s1	15	
300.70								wt																								sr	10	Qz+Cb
302.80	306.00	3.20		10l	shz																											vl		milimetric qz+cb stringers and veinlets. Irregulary distributed.
303.40	306.00	2.60		QVN				wt											py	1.00	bl	eu		qz	vs	cb	cl						vn	50	Relevant qz- veins at @ 303.4 to 304.0; at @304.8 (2 cm wide); at @305.15 (2 cm wide); at @ 306.0 (2 cm wide)
304.50																																fg	55	gouge
305.20																																fr		
306.00																																vn	20	
307.70	309.10	1.40		10l	shz														py	0.01	bl	eu											vl		milimetric qz veinlets
308.40																																ft	20	
308.40																																s1	50	
309.25																																s0	15	
309.25																																s0	90	
309.25																																s1	50	
310.00	310.20	0.20		10l	shz														py	6.00	bl	eu											vl	30	qz sheared veinlets. Milimetric.
310.00	310.20	0.20																	sph	0.10	bl														
310.80	311.70	0.90																	py	1.00	bl												vl	50	sheared veinlets, deformed (boudinage) qz-veins. Following s1. Big blebs of Py, 1.5 cm size.
312.00																																s1	40	
312.00																																s0	0	
312.00																																s0	20	
312.00																																s0	80	opposite
312.10	313.00	0.90		10l	shz																													
312.60																																s1	50	
312.60																																s0	50	
313.70																																fr		
314.35	314.70	0.35																														fr		
315.50																																s1	30	
315.80	316.35	0.55		QVN				wt	cr															qz	vs	cb						vl	50	4 qz-veins, around 4 cm wide. 40% QVN
317.20																																s1	35	
317.20																																s0	35	
317.40	335.75	18.35									1							1																	
319.00																																s0	30	
319.00																																s1	20	
320.30																																ft		
321.00																																s1	10	
321.00																																s0	10	
321.50	322.25	0.75		QVN				wt	cr															qz	vs	cb						vl		60% QVN. 2 big Qz-veins: 22 cm wide (at@321.5 m depth) and 14 cm wide (at@322 m depth). A lot of qz milimetric irregular veinlets.
323.00																																s0	50	
323.00																																s1	45	
323.30	326.25	2.95		10	shz			wt	tr									1	py	0.01	ms	bl											vl		milimetric and irregular qz-veinlets. Deformed. Some Py blebs.
324.30																			py		ms												s0	50	silt bands partially filled wiht massive Py (0.5 size)
325.10																																vl	20	Qz veinlet.
327.00																																s0	30	
327.00																																s1	25	
328.10	331.30	3.20		QVN				wt	cr	grl														qz	vs	cb	cl					vn	70	2 qz veins dipping 70º, with 10 cm wide, separated 20 cm and joined by a lot of qz+cb-veinlets
330.50	330.80	0.30																														frz		
331.75				QVN				wt	cr															qz	vn	cb						vn	45	0.5 cm wide
332.60																																s0	80	
332.60																																s1	40	
333.20	335.75	2.55		QVN				wt									2		py	0.50	bl	eu		qz	vs	cb	cl							20% qz.-veins. From 334.4 to 334.7. big veinset with a lot of chlorite and Py blebs. Irregular. From 335.25 to 335.55, big veinset with a lot chlorite, dipping 25º.
335.10																																s0	60	
335.10																																s1	50	
336.70																																s1	40	
336.70																																s0	50	

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	
335.75	338.30	2.55										2																					
338.05																															fg	40	clays in fracture plane
338.30																															fg	40	clays in fracture plane
338.30	363.80	25.50	10sh									1								py	0.01	bl	eu										Deformed and boudinaged qz silt bands in shales. Some py spots. Some sedimentary faults.
341.80																															s1	50	
350.00																															s1	50	
351.00																															s1	30	
351.60																															ft	40	sedimentary fault
350.60				QVN					wt	grl										py	0.01	in	bl		qz	vn	cb	cl			vn	40	2 cm wide. Following S1
351.45				QVN					wt																qz	vn	cb	cl			vn	40	1 cm wide. Following S1
352.80																															s1	40	
352.80																															s0	0	
353.90	358.70	4.80		QVN					wt	cr	grl									py	0.01	bl			qz	vs	cb	cl			vl		20% Qvn. Fractured and sheared qz veinset. Intense fracturation at@356.5-357.40 m depth. Qvn roughly following s1. milimetric qz-veinlets crushed and deformed.
356.50																															ft	70	
356.75																															ft		
358.40									cr																						fr	20	with carbonates in fracture plane.
358.20																															s1	10	
359.00																															s1	50	
355.00																															s1	50	
361.20																															s1	40	
361.20																															s2	10	OPPOSITE
364.80	366.00	1.20																													vl		Irregular. White Carbonate stringers/veinlets.
363.80	383.15	19.35	10l																	py	0.01	bl									s1	40	some blebs of Py (around 0.5 cm size)
363.80																															s2	5	OPPOSITE
366.80																															s1	40	
366.80																															s2	10	OPPOSITE
366.80																															s0	0	
369.40																															s1	40	
369.40																															s0	40	
369.50	370.00	0.50		QVN					wt	grl										py	0.01	bl	in		qz	vs	cl	cb			vn	10	Irregular qz-vein with a lot of chlorite, following roughly s1
369.80																															s1	10	
370.60																															s0	50	
370.60																															s1	40	
370.70	370.95	0.25		QVN					wt	grl										py	0.10	bl	in		qz	vs	cl	cb			vn	10	sheared qz-vein with a lot of chllorite. 7 cm thickness
370.95																															vn	30	same vein, changing the dip.
372.15																															s1	30	
372.15																															s2	20	OPPOSITE
375.10																				py		bl	eu								s1	60	1 cm sulphide vein, following s1. Translucent qz mixed wiht the sulphides.
375.10																				sph		bl	eu										milimetric sph spots.
374.00																															s1	50	
374.00																															s2	10	OPPOSITE
375.70	377.10	1.40		QVN					wt	cr	grl	1							1	py	0.01	bl	eu		qz	vs	cb	cl			vl		40% QVN. Irregular and sheared qvn and veinlets, following roughly s1. Some flamboids. Py as blebs and crystals, almost at @376.9 m depth (10 cm wide).
375.90																				sph	0.01	bl											0.5 cm size sph crystal at @375.9 m depth.
377.60																															s1	30	
378.30	381.80	3.50		QVN					wt	grl	cr	1							1	py	0.01	bl	eu		qz	vs	cl	cb			vl		40% QVN. Irregular and sheared qvn with chlorite. Big vein from 380.85 to 381.40. A lot of qz-veinlets, almost following s1. Subvertical dips. Sph at @ 379.75, 380.75 and 381.5 m depth as milimetric blebs or crystals inside qz veins and veinlets.
378.30	381.80	3.50																		sph	0.01	bl	eu										
379.30																															s1	20	
380.75																															vn	20	
382.65																															s1	50	
382.65																															s2	5	OPPOSITE
383.00	383.50	0.50		QVN					wt	grl	cr									py	0.01	bl	eu		qz	vs	cl	cb			vn	50	50% QVN. 10 cm max wide. A lot of Chlorite. Almos py at @383.25 m depth.
383.25																				cpy	0.01	bl											milimetric bleb of Cpy at @ 383.25 inside QVN (1 cm wide of vein)
383.25																				sph	0.01	bl											milimetric bleb of Sph at @ 383.25 inside QVN (1 cm wide of vein)
383.50																															s1	50	
383.50																															s2	10	OPPOSITE
383.15	397.20	14.05	10sh						gl			3																					High sericitic alteration. Rock is light grey. Boudinaged silt bands.
383.70	384.70	1.00																		py	0.10	bl	eu										
384.70	396.50	11.80		QVN																py	0.01	bl	eu		qz	vs	cl	cb			vl		Qz veins and veinlets. Sheared. A lot of folds. A lot of Chlorite, 15 cm wide vein at @ 388.80 m depth, and 7 cm wide vein at @ 386.70 m depth.
389.15																				sph	0.01	bl									vn	70	2 cm wide. Some milimetric blebs of Sph.
387.05																				sph	0.01	bl									vn	10	1 cm wide. Some milimetric blebs of Sph
386.00																															s1	60	
389.40																				gn	0.01	bl	eu								vn		0.5 cm wide. Some milimetric blebs of Gn
389.50									cr																						fr	0	Vertical fracture filled with Qz+Cb (creme colour)
390.15																				sph		bl									vn	30	1 cm wide. Some milimetric blebs of Sph
397.20	401.40	4.20	10l																	py	0.01	bl	eu								sr		some milimetric qz-veinlets and stringers. Some Py blebs in silt bands.
393.05																				sph		bl	eu										1 cm sulphide vein. Almost Py. 1 little Sph bleb (<1 mm) .
393.05																				py		bl											
393.35	394.20																														frz		Fractured-sheared zone with a lot of qz
393.75																															ft	40	some gouge
395.90																															s1	70	
395.90																															s2	20	
398.85																															ft	70	sedimentary fault
398.85																															sr	60	
397.20																															sr		
399.88	399.95			QVN					wt	cr															qz	vn	cb				vn	30	6 cm wide.
401.40																															s1	80	
401.00																															s1	50	
401.40	_	EOH	EOH																														EOH