Tenth Legion Drill hole Detailed Report

TLC15

Geology

0	1.2	NS	no recovery
1.2	3	Q	
3	6.5	H	
6.5	19.5	H	Brecciated Siltstone, intencity varies.
19.5	21.8	H	minor pyrite visible in broken sections of core, thinly bedded 1 - 2cm.
21.8	24.2	H	
24.2	28.2	H	partial quartzite?
28.2	31.7	Q	
31.7	32.6	C	Calc silicate/quartzite, possible chlorite (green tinge to rock)
32.6	36.6	H	Thinly banded 1-3mm, quartzite, altered sitlstone.
36.6	44.7	H	brecciated and deformed thin beds 1-3mm.
44.7	47.1	C	transitional from shale breccia to white calc silicate both units blended, minor amount of magnetite blebs.
47.1	48	C	White with light green tinge (chlorite)
48	49.3	M	small amount of black siltstone in with massive magnetite
49.3	52.3	C	Light green tinge
52.3	55.8	C	Black veining in section tourmaline?
55.8	56.9	C	weathered section of calc silicate
56.9	58.5	C	Black veining in section toumaline?
58.5	59.32	C	mottled mix of calc silicate, shale and magnetite
59.32	62.29	M	Massive magnetite with minor serpentine.
62.29	62.7	M	massive magnetite with calc silicate
62.7	63.75	MS	magnetite/serpentine 50/50 mix
63.75	64.75	C	white calc silicate contains minor magnetite some clasts likly silicified siltstone.
64.75	65.59	CM	50/50 mix calc silicate and magnetite
65.59	68.05	C	Brecciated calc silicate, chalcedony? and siltstone.
68.05	70.1	C	light green calc silicate some fractures exhibit altered serpentine?
70.1	70.53	C	weathered section of calc silicate, talcy in texture.
70.53	71.67	Q	White marble like texture.
71.67	72.24	H	Magnetite and shale, green flaky material actinolite/tremolite?
72.24	72.56	C	light grey banded and deformed calc silicate.
72.56	73.26	M	
73.26	74	C	breccia of calc silicate/siltston/unknown red material (massive in form heavily silicified.
74	76.1	M	magnetite with minor serpentine, small 20cm where inclusion is calc silicate not serpentine.
76.1	77.8	C	white grey marble appearance, calc silicate, minor mag concentrated in a 10cm section mottled with the calc silicate.
77.8	78.34	M	massive magnetite
78.34	79.6	CM	magnetite calc silicate.
79.6	81.8	IUS	Altered serpentine weathered in part
81.8	83.1	C	green/white/pink mottled calc silicate, brecciated, thermal alteration?
83.1	85.26	SM	magnetite/serpentine
85.26	87.57	C	green/grey/white/pink mottled calc silicate.

87.57	87.97	M	minor calc silicate.
87.97	89.65	CM	magnetite and calc silicate, 2 bands of magnetite 20cm each rest of magnetite scattered in blebs through section.
89.65	90.82	C	
90.82	91.25	C	brecciated black/white calc silicate, altered shale/siltstone?
91.25	93.2	C	
93.2	94.5	C	black/white mottled mix of shale and calc silicate.
94.5	97	H	shale/siltstone altered, minor pyrite in fractures and disseminated.
97	99.24	C	calc silicate with altered shale/siltstone.
99.24	100.2	H	
100.2	101.2	C	
101.2	102.2	M	Massive magnetite, minor pyrite and calc silicate.
102.2	105.2	IUS	altered serpentine, weathered not full core recovery.
105.2	107.1	C	talc in fractures? weathering product?
107.1	110.45	SM	massive magnetite and serpentine.
110.45	112.1	C	mottled black/white
112.1	112.9	SM	magnetite/serpentine/calc silicate.
112.9	116.4	IUS	calc silicate with serpentine. pale to dark green.
116.4	123.1	C	calc silicate with minor serpentine and unknown red material.
123.1	126.2	SM	
126.2	128.1	C	breccia zone, hydrothermal alt?
128.1	135.05	C	calc silicate, strong alteration visible in deformed black veigning pattern in core.
135.05	142.6	C	calc silicate, alteration/deformed veigns now brown.
142.6	148.3	C	mottled mix of calc silicate and shale, black tourmaline? veinlets to 4mm.
148.3	149.6	BC	Narrow zone of brecciated calc-silicate rock with some shaley clasts visible. Highly silicified.
149.6	154.2	C	Tremolite-rich, indurated, some shaley remnants of original lithology still visible.
154.2	173.5	H	Hornfelsed shale and siltstone, relict bedding and laminations visible. Minor pyritic quartz veining visible.
173.5	186.9	H	Sedimentary textures still visible, increased calc-silicate content, remnant bedding at varying angles to core axis indicating deformation of beds. Black tourmaline? veining and blebs present as very fine grained accumulations.
186.9	188.3	CM	Increased magnetite contact at sharp upper contact. Pyrite blebs. Represents a calcareous original lithology. Trace of weathered epidote? as 1-2mm veinlets. Pyritic brecciated lower contact.
188.3	195	C	Pyrite-epidote +/- tourmaline calc-silicate rock. Highly indurated sericitic rock. May also be interpreted as 'Q' lithology of CRAE.
195	196.7	MS	Near massive magnetite-pyrite with minor serpentine blebs.
196.7	212.5	H	Pyritic siltstone and shale interbeds from 208m - EOH. Increased core loss and fracturing (structural zone). Bedding at various angles to core axis further indicating a deformed zone. minor serpentine veining.

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-50
60	196	MAGNETIC	-47.5
100	191	MAGNETIC	-49
150	192	MAGNETIC	-49
200	205	MAGNETIC	-47.5

Geology

0	19	Q	Grey to buff-coloured fractured impure quartzite. Silty interbed 13.2-13.8m. Limonitic fractures.
19	24.5	H	Highly fractured shale unit with sandy 10-20mm interbeds. Probably represents a faulted zone.
24.5	57	Q	Quartzite-sericite unit. Epidote/actinolite veining at 34.5m. Extensively deformed, silicified and altered. Abundant silty interbeds. Bedding @ 75 degrees to core axis @ 39.5m. Remobilised quartz veining present with massive qtz-ser veining @ 49-49.5m.
57	65.1	Q	quartzite grey/dark grey slightly brecciated with minor quartz veining to 3mm
65.1	72.5	Q	much more brecciated presence of hornfels/chert? deformed section
72.5	76.6	H	minor section of siltstone slightly altered also contains 30cm band of magnetite, pyrite and shale.
76.6	77.6	M	small amount of calc silicate within magnetite
77.6	80.8	SM	Altered serpentine with minor magnetite.
80.8	83.6	H	altered shale and silstone.
83.6	85.7	MC	magnetite section pyrite and pyrohtite? present with minor serpentine.
85.7	87.9	CM	minor magnetite present in predominately calc silicate rock.
87.9	89.3	M	massive magnetite minor pyrite possible pyrohtite, small amount of serpentine present.
89.3	94.5	C	white calc silicate rock with very minor magnetite blebs.
94.5	95.6	C	calc silicate with minor magnetite, dolomitic veining 50' tca
95.6	101	CM	calc silicate with magnetite small section of 50cm of lesser calc silicate possible remnant bed? at 99.6m
101	118.8	MS	massive magnetite containing minor serpentine as blebs 10%, also present pyrite and pyrohtite minor calc silicate at end of section.
118.8	120.2	C	minor magnetite, calcite veins, unknown black mineral veins, perhaps tourmaline?
120.2	122.7	MS	magnetite with remnants of serpentine.
122.7	123.1	C	slightly brecciated calc silicate zone splitting magnetite intersections.
123.1	130.8	MS	massive magnetite some serpentine.
130.8	140	BC	mottled calc silicate various colors brecciated throughout.
140	144.4	C	pale green/grey calc silicate.
144.4	146.8	BC	Brecciated.
146.8	148	SSH	Altered shale, dolomitic veins.
148	152.2	BC	
152.2	156.2	SSH	Altered shale, quartz veins to 3cm, slightly brecciated.
156.2	162	C	calc silicate.
162	165.8	IUS	Possible altered serpentine, deformation visible in core.
165.8	169	C	minor calcite veins 35' tca Light grey/dark grey.
169	178	C	calc silicate/dolomitised weakly altered core, seems heavily fractured filled with a chert/chalcedony (diopside?) calcite veining upto 3mm 40' tca.
178	181.1	H	compsite of hydro? altered shale and siltstone, some minor bedding present in section upto 1cm.

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-50
50	185	MAGNETIC	-48.5
100	182	MAGNETIC	-48.5
150	172	MAGNETIC	-48.5
181	181	MAGNETIC	-48.5

Geology

0	7	H	Poor recovery, 7 meters in 1 meter of samples.
7	12	H	Siltstone with some remnant layering at 70' TCA
12	21.5	H	Highly broken core, orange in color from iron oxidisation
21.5	25.8	H	mostly devoid of structure a few layers still exist at 75' TCA a couple of quartz veins also present
25.8	32.3	H	mostly massive, what banding there is shows strong deformation, weathered more than previous section.
32.3	41	H	High amount of silicification, abundant banding at 45' TCA
41	50.8	H	Two forms of pyrite present in core, a course disseminated and very fine pyritic veining, what bedding there is, is deformed. silicification verging on a quartzite.
50.8	52	C	Calc silicate with minor magnetite
52	55.1	CM	Calc silicate with magnetite both massive and disseminated blebs
55.1	56.8	C	Small section of calc silicate void of magnetite.
56.8	60.7	CM	Calc silicate with blebs of magnetite.
60.7	62.8	C	Massive calc silicate
62.8	70.1	C	massive white calc silicate with some disseminated magnetite
70.1	72.5	CM	calc silicate with massive magnetite
72.5	75.1	C	minor magnetite
75.1	79	SM	massive magnetite with serpentine, dolomitic fractures
79	85.1	H	shale with dolomitic fractures, minor serpentine also present in fractures, some bedding visable at 50' TCA minor pyrite present.
85.1	87.5	BH	brecciated shale with serpentine, diopside can calc silicate.
87.5	89.1	BS	highly fractured, filled with unknown material, asbestos like in appearance but wax like in texture, possibly was asbestos now been replaced ot altered, very soft material.
89.1	96.5	SM	massive magnetite with serpentine, slightly fractured with more of the unknown material.
96.5	106	BC	Brecciated Calc silicate, high amount of diopside fracturing, some remnant layers exist but very deformed.
106	121.1	C	Calc silicate with diopside banding, thick quartz veining with associated pyrite.
121.1	123	C	massive calc silicate with some serpentine.
123	134.6	MS	Massive magnetite with serpentine, some dolomitic veining at 60' tca.
134.6	135.7	IUS	Section void of major magnetite.
135.7	154.4	MS	massive magnetite and serpentine with some dolomitic veining at 60'tca, serpentine is bleached towards end of section.
154.4	159.7	C	Calc silicate with high amount of diopside, quartz veining and fractures present.
159.7	162.5	BC	Brecciated calc silicate.
162.5	164.4	CM	calc silicate with magnetite. Magnetite appears in a deformed banded texture with the calc silicate.
164.4	169.1	C	MAssive Calc silicate
169.1	172	C	Calc silicate, appears sections have been altered/weathered to clay, also affecting the fractures.
172	190.1	C	Calc silicate with high amount of diopside ....EOH....

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-55
50	177	MAGNETIC	-54.5
100.5	166	MAGNETIC	-56
154.5	178	MAGNETIC	-56

Geology

0	23.2	CLY	highly weathered to clays, most likely originally shale and silts, some sections of intergrated gravels of shales and other alluvials, most former structure no longer visable small section of remnant bedding slightly deformed shows general trend of 50 TCA
23.2	24.6	H	Fractures in shale filled with weathered material now clay, fractures tend to follow core axis 0'
24.6	29.8	H	Brecciated zone black/grey/orange although well weathered still evidence of brecciation
29.8	44	H	Deformed shale, areas of brecciation, also areas of soft sediment deformation? in small sections thin beds still visable these trend 50' TCA
44	46.75	H	Transitional from shale to calc silicate, black massive shale has been silicified, minor disseminated pyrite present.
46.75	50.7	C	appears Black/white when dry, wet appears mottled green/grey/white. Core is fractured in various angles small amount of magnetite in core.
50.7	51.35	CM	Small section of Calc silicate and magnetite, mostly concentrated in a 10cm massive magnetite band (vein?) surrounding area around it appears brecciated and has minor magnetite.
51.35	52	C	Transitional to shale minor magnetite in brecciated section towards shale.
52	56	SM	Altered serpentine? shale like section from 53.9 - 54.5 white calc silicate, high amount of magnetite veining some small blebs, rest is dark shale/altered to serpentine? Dolomite veins and magnetite veins. some fractures of magnetite aswell.
56	60.5	C	White Calc silicate unknown black veins (tourmaline?) at 35' TCA.
60.5	67.1	IUS	Core recovered is weathered and fractured, but still some serpentine textures visable.
67.1	75.5	M	Massive magnetite, minor serpentine, some minor fracturing.
75.5	76.5	C	White Calc Silicate.
76.5	80	H	Highly fractured and altered no remnant structure left, appears deformed from alteration.
80	81.9	C	Massive calc silicate
81.9	85	IUS	bleached serpentine, some fabric still visable in fractures which are weathered to clay.
85	87.9	MS	Serpentine and magnetite, Diopside fractures, serp fractures weathered to clay.
87.9	88.5	IUS	serpentine and magnetite.
88.5	90.7	H	Dark grey/light grey banding (deformed bedding?) roughly trending 65' TCA
90.7	92.2	C	White calc silicate, Diopside fill in fractures of various angles.
92.2	101.85	MS	Magnetite as large blebs as well as disseminated in the serpentine minor asbestos also present.
101.85	104.2	IUS	Altered and bleached serpentine, minor blebs of magnetite, Diopside present, section has been brecciated unknown material present, pink in color silicious (possibly rhodonite)?
104.2	112.6	SM	Magnetite as large blegs aslo disseminated.
112.6	117.3	SM	Highly bleached/altered serpentine and magnetite.
117.3	123.8	SM	Serpentine and magnetite, bleached towards end of section.
123.8	128.1	C	Brecciated Calc silicate, diopside present some residual serpentine also present.
128.1	129.2	SM	Massive magnetite with some serpentine.
129.2	179.4	BC	massive calc silicate, brecciated for the most part, some minor veins of quartz at an avg 35' TCA. Diopside also present some minor banding slightly deformed, small section with pyrite in a fractre at 161.5m.
179.4	188.2	BC	Calc silicate becomes a dark brown, diopside rich, many fractures filled by quartz at various angles, minor quartz veins also.

188.2	191.6	C	Core still has quartz factures at various angles, minor deformation some remnant bedding still exists at 35' TCA on average.
191.6	208.5	C	Diopside rich core massive with quartz fractures, minor brecciation and deformation, some bedding present at 20' TCA minor pyrite disseminated in core towards the end of section.

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-50
202.5	185	MAGNETIC	-52.5

Geology

0	39.9	Q	Sandstone/quartzite section well weathered, low recovery, remnants of original layers still visable but now deformed, low amount of disseminated pyrite in core.
39.9	50.2	Q	Yellow stained in fractures, not Fe orange like previous section. epidote/actinolite in core, fractures at various angles possible breccia zone. remnant bedding still present.
50.2	69	H	Remnant bedding still visable, various levels of silicification, minor pyrite in more weathered zones. core exhibits alot of dolomitic? fractures.
69	70.75	C	Gradational change from weathered calc silicate to fresh calc silicate, green tinge in color gets darker as nears mineralised zone in next section.
70.75	74.2	CM	calc silicate with magnetite, one vein at 74m 20cm thick 70'tca rest is massive spread though core, calc varies from White to blue/green diopside veining and/or fractures of various angles.
74.2	76.4	C	fresh calc silicate no mineralisation.
76.4	77.9	IUS	heavily weathered section of serpentine minor asbestos present.
77.9	83.8	BC	brecciated calc silicate and shale.
83.8	86.45	C	green tinge to core weakly brecciated.
86.45	96.9	C	Brecciated calc silicate/shale diopside and quartz infill in fractures.
96.9	104.65	C	Green/Grey Calc silicate, tourmaline? veining present, various angles but a dominant 50' tca, also some minor epidote with the tourmaline, minor magnetite.
104.65	106	CM	magnetite bleby mineralisation.
106	108.15	H	pyritic veins with quartz.
108.15	116.2	CM	Brecciated zones mineralised, minor pyrite/pyrohtite, diopside in fractures.
116.2	120.2	H	Remnant bedding still viable, altered - silicified?
120.2	123.3	C	Grey/Green calc silicate slightly fractured.
123.3	126.5	H	altered shale, minor quartz veins.
126.5	129.9	C	Brecciated Calc silicate and altered serpentine, rock unweathered but veining weather to clay, probly originally serpentine?
129.9	149.65	M	Massive magnetite mottled with calc-silicate and minor serpentine blebs. 80/20 distribution. minor dolomitic vein at 60' tca.
149.65	153.6	IUS	Matrix appears to be altered serpentine. Diopside present in small amounts. veins of bright green serpentine.
153.6	155.35	M	Massive magnetite with minor serpentine and calc-silicate minerals.
155.35	155.95	MS	Serpentine with magnetite.
155.95	158.1	IUS	weakly weathered serpentine, heavily altered towards end of section - silicification.
158.1	159	C	Quartz fractures of various angles.
159	162.45	IUS	Strongly altered serpentine, some remaining fabric, pyrite present in blebs and vein inclusions.
162.45	164.9	IUS	Highly silicified parts of calcsilicate and serpentine.
164.9	165.7	MS	massive magnetite and serpentine.
165.7	166.5	IUS	brecciated with weak weathering.
166.5	168.1	C	pure calc silicate.
168.1	177.4	IUS	weathered in fractures, minor magnetite aome serpentine texture still present 1 large vein of calcite present.
177.4	181.2	C	Brecciated serpentine and calc silicate, few calcite veins around 30' tca, small section of magnetite blebs 180.5m.
181.2	182.9	C	Fractured calc silicate, minor diopside.
182.9	184	SM	minor dolomite veins.
184	191.2	IUS	Altered serpentine, minor magnetite, and some dolomite veins.

191.2	192.3	SM	single vein of dolomite, massive magnetite.
192.3	195.55	IUS	Heavily deformed and altered serpentine, some dolomite veins, minor magnetism (magnetite in matrix?)
195.55	203.8	C	Mottled calc silicate high amount of diopside, 33mm thick quartz vein in core. EOH.

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-50
50	178	MAGNETIC	-50.5
95	184	MAGNETIC	-50
151	186	MAGNETIC	-50
199	178	MAGNETIC	-50.5

Geology

0	16	H	massive siltstone strong iron oxidisation.
16	23	CLY	massive clay minimal iron staining
23	36.7	CLY	massive clay section level of iron oxidisation varies from moderate to strong.
36.7	38	SSS	sand like magnetite (strongly weathered magnetite to sand?) fine grained nearly all magnetic.
38	43	CLY	moderate iron oxidisation with minor magnetite, 10cm vein at 41.2 and 4cm vein at 42.5, and a small amount of disseminated magnetite in the clay.
43	48.8	CLY	gossanous clay with high amount of magnetite, heavily weathered to a sandy grained magnetite.
48.8	53	CSG	gossan like section high in iron content weakly magnetic.
53	53.8	SSS	heavily weathered magnetite to a fine grained sand.
53.8	61	CLY	gossanous clay, very high iron content, sporadic mica in core small vein of mica at 55.6m. In part original siltstone can be seen but mostly weathered to clay.
61	63.2	H	weathered to clay with some solid siltstone.
63.2	67.2	H	siltstone with some banding all deformed with rough trend of 40'TCA evident.
67.2	91	Q	massive quartzite with minor magnetite at 79.6 possibly associated to tourmaline? veins. think veins of magnetite at 81.2 and 86.8m. Serpentine veining present at various angles some thicker sections but mostly fine 1-3mm.
91	100.6	H	siltstone with minor pyrite as blebs and disseminated through the core, some diopside veining present with a rough trend of 20' TCA serpentine also present in patches.
100.6	117.2	C	massive calc silicate very high amount of diopside present as veining also small amount of rhodonite, some pyrite disseminated in core, only large diopside and pyrite vein 15mm thick 10' TCA at 108.3m.
117.2	123.6	MS	bleached patches of serpentine with magnetite and siltstone/serp alteration? blebs of pyrhotite and pyrite scattered through core.
123.6	126.1	H	section is heavily banded in the shale (black and white) also a few small sections of calc siicate dispersed between banded sections, banding is strongly deformed with some minor serpentine alteration.
126.1	150.3	C	massive calc silicate with dolomitic veins, some minor pyrite ans vein inclusions. section from 143.5 to 146.5 thick veining like granite upto 30cm thick. core also has high amount of diopside banding with some chlorite and rhodonite also present in core.
150.3	153.6	MS	massive serpentine? and magnetite with blebs of pyrite and pyrhotite scatterec through. serpentine is bleached and strongly altered.
153.6	157.6	IUS	bleached serpentine, mottled black and white, minor amounts of pyrite and magnetite.
157.6	194.2	C	massive calc silicate with ocassional dolomite veins and calcite inclusions in fractures. very high amount of diopside present forming bands of various angles. Minor pyrohtite scattered in core as blebs also some pyrite associated with some calcite veins.

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	225	MAGNETIC	-60
194.2	225	MAGNETIC	-60

Geology

0	10.4	H	Strongly weathered siltstone, poor recovery 4m of sample in 10m of drilling, no structure.
10.4	22.6	H	Shale and siltstone, slightly silicified some remnant bedding still visable, strong iron oxidisation in fractures of various angles.
22.6	37.5	H	Remnant banded layers still visable in part at 80' TCA oxidisation of iron weaker from weathering.
37.5	46	H	Deformed silicified siltstone, cluster of quartz fractures at 45' TCA minor iron staining in fractures. Banded layers still present slight angle change, core verging on a quartzite
46	48.9	Q	Deformed silicified siltstone, cluster of quartz fractures at 45' TCA, minor iron staining in fractures.
48.9	68.5	Q	Some large quartz veins at various angles though 35' is a common trend, minor deformed banding present in parts.
68.5	102.3	Q	Quartz veining at 80' TCA minor banding present in core trending 15' TCA alot of deformation in core.
102.3	111	Q	very similar to previous core, slightly darker grey, minor banding present 80' TCA, Slightly brecciated, unknown brown material in vein with quartz.
111	140	Q	Some banding still present mostly massive with minor calcite veins, deformation from alteration throughout core.
140	157.3	C	minor diopside and pyrite, massive calc silicate.
157.3	165.3	SM	massive Serpentine and magnetite with minor pyrrhotite, some fracturing
165.3	168.5	SM	Strongly altered serpentine with some sections of massive magnetite, core is also highly fractured with magnetite.
168.5	172	IUS	Bleached/altered serpentine strongly fractured inclusion in fractures is likely toumaline? minor pyrite present.
172	173.5	SM	Serpentine with low level of magnetite mostly disseminated within the matrix, minor pyrite also present.
173.5	177.8	IUS	Massive serpentine fractured at various angles
177.8	183.5	C	massive calc silicate, diopside present.
183.5	189.1	CM	Calc silicate and magnetite, some serpentine present, magnetite in massive form but also disseminated within the matrix, some dominant veins of dolomite at 55' TCA also many minor veins at various angles.
189.1	196.9	C	massive calc silicate, diopside present.
196.9	197.7	CM	Calc silicate with magnetite, mostly massive.
197.7	211.5	C	Massive calc silicate, diopside present.
211.5	217.8	IUS	massive serpentine strongly altered/bleached.
217.8	219	C	massive clac silicate
219	225.2	CM	Calc silicate with intermittant layering of magnetite
225.2	239.1	C	Massive calc silicate with diopside END OF HOLE

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	184	MAGNETIC	-60
239.1	184	MAGNETIC	-60

Geology

0	15	H	Siltstone with some remnant bedding, at 75' tca, high amount of iron oxidisation.
15	29	H	Siltstone less weathered with minor disseminated pyrite.
29	34.5	H	Some remnant bedding present. Also minor disseminated pyrite.
34.5	58	Q	minor sphalerite and pyrite contained with in fractures, mostly massive quartzite.
58	67.5	H	Deformed banding rough trend of 80'tca. Sphalerite and pyrite present in fractures, minor section heavily altered to quartzite.
67.5	71.5	Q	pyrite fractures slightly more intense.
71.5	72.2	Q	Breccia zone shale/quartzite
72.2	76.3	Q	Swection of sand at 74m, remnant banding at 30' tca, pyritic fractures.
76.3	81.3	H	deformed and slightly brecciated shale, some minor pyritic fractures.
81.3	93.9	Q	very minor pyrite, some remnant banding mostly massive.
93.9	102.2	Q	Fractured and brecciated, magnetite zones around fractures.
102.2	104.4	C	minor magnetite blebs, mostly massive calc silicate
104.4	106.4	H	brecciated slate, deformed banding present in part
106.4	109.6	C	
109.6	114.4	H	section of core may be contaminated from drill bit smear, minore pyrite in core some serpentinisation
114.4	115.5	C	Sphalerite veining, minor pyrite and galena, diopside and dolomite filled fractures.
115.5	133.6	H	massive shale strongly altered, some dolomite and quartz veining.
133.6	135	BC	Brecciated calc silicate.
135	145.5	H	mostly massive, some remnant banding intact at 50' tca most is deformed. quartz veining near end of section.
145.5	150	BC	shale and calc silicate breccia, banding slightly defomred but trending 60' tca
150	162.8	C	calc silicate with diopside and quartz fractures.
162.8	164.3	H	
164.3	167.8	C	cals silicate with diopside fractures.
167.8	177	VCC	calc silicate and what appears like a conglomerate of similar material (volcaniclastic?) in reapeating layers each of the 67 layers separated by approxiamately 50cm of calc silicate. quartz and calcite inclusions.
177	178.7	C	massive white calc silicate, possibly with minor sphalerite (small black speckles in core)
178.7	183	MS	massive manetite and serpentine
183	184.2	C	deformed calc silicate
184.2	184.7	CM	small amount of magnetite in calc silicate
184.7	210	C	massive section of calc silicate, diopside, rhodonite and epidote? all present.
210	212.3	C	same unit as previous but some banding present. 55' TCA 30' to orientation (BDC)
212.3	234.8	C	massive calc silicate possible serpentine remnants, epidote? present.
234.8	236.4	C	diopside rich zone
236.4	238.5	C	breccia zone, looks to be fractured with chunky clasts of calc silicate.
238.5	243.4	C	calc silicate with green tinge either epidote or chlorite.
243.4	245.3	BH	shale and siltstone with calc silicate, brecciated siltstones, pale white sections like clasts.
245.3	253.8	C	dolomitic veining in green tinged calc silicate, chlorite/epidote. diopside veining present towards end of the section.
253.8	254.7	H	siltstone section with no structure, separating similar sections of calc silicate.

254.7	259.9	C	diopside spread right through core, 1 prominant vein at 40'tca and 80' orientated TBC. green tinge again in core.
259.9	260.8	H	massive altered silstone minor pyrhotite, pyrite present as blebs, magnetite seems disseminated in core.
260.8	262.7	C	massive calc silicate minor pyrite and magnetite blebs.
262.7	270.7	C	massive calc silicate, green tinge to core, high diopside content.
270.7	282	H	silstone heavily altered to calc silicate, with thin quartz veining.
282	286	C	grey/green calc silicate.
286	288	CM	mix of calc silicate and serpentine with magnetite, minor pyrite disseminated in core.
288	289.8	IUS	serpentine and calc silicate, rhodonite present, minor dolomitic veining.
289.8	291	C	calc silicate, minor rhodonite and diopside.
291	295	C	calc silicate with magnetite diseminated in patches, some magentite veining.
295	297.9	CM	calc silicate with massive magnetite in parts.
297.9	301	C	mssive calc silicate, no mineralisation, some diopside.
301	305.2	C	massive calc silicate some black sediment spread through core
305.2	310.5	C	calc silicate
310.5	311.5	C	section appears banded black/white some form of foliation? no determinable angle to banding from deformation.
311.5	331.1	C	blue green tinged calc silicate, some minor calcite present.
331.1	338.5	C	mostly massive with increased diopside, some quartz veining.

...EOH...

Downhole Surveys

Depth	Azimuth	Datum	Dip
0	177	MAGNETIC	-75.4
4	176.5	MAGNETIC	-75.8
8	176.8	MAGNETIC	-75.6
12	176.5	MAGNETIC	-75.5
16	176.7	MAGNETIC	-75.5
20	177.7	MAGNETIC	-75.5
24	177.8	MAGNETIC	-75.6
28	177.6	MAGNETIC	-75.3
32	176.5	MAGNETIC	-75.3
36	175.9	MAGNETIC	-75.3
40	176.1	MAGNETIC	-75.2
44	175.8	MAGNETIC	-75
48	175.6	MAGNETIC	-74.9
52	176.3	MAGNETIC	-75
56	176.6	MAGNETIC	-75.1
60	176.1	MAGNETIC	-74.8
64	176.5	MAGNETIC	-74.9
68	176.5	MAGNETIC	-75
72	177.1	MAGNETIC	-75
76	177.1	MAGNETIC	-74.9

80	177.5	MAGNETIC	-74.9
84	178.1	MAGNETIC	-75.1
88	178.7	MAGNETIC	-75
92	178.4	MAGNETIC	-74.9
96	178.9	MAGNETIC	-75.1
100	178.6	MAGNETIC	-75.2
104	179	MAGNETIC	-75.1
108	178.9	MAGNETIC	-75
112	179.1	MAGNETIC	-75.1
116	179.3	MAGNETIC	-75.2
120	179	MAGNETIC	-75
124	178.6	MAGNETIC	-74.9
128	179.2	MAGNETIC	-75
132	179.6	MAGNETIC	-75
136	179.7	MAGNETIC	-74.9
140	180.1	MAGNETIC	-74.8
144	180	MAGNETIC	-75
148	180.3	MAGNETIC	-74.9
152	180.3	MAGNETIC	-74.8
156	180.4	MAGNETIC	-74.8
160	181	MAGNETIC	-75
164	181.6	MAGNETIC	-74.9
168	181.2	MAGNETIC	-74.8
172	180.7	MAGNETIC	-74.9
176	180.9	MAGNETIC	-75.1
180	181.7	MAGNETIC	-75
184	181.9	MAGNETIC	-74.9
188	181.8	MAGNETIC	-75
192	182.3	MAGNETIC	-75.1
196	182.6	MAGNETIC	-75.1
200	182.7	MAGNETIC	-75
204	182.8	MAGNETIC	-75.2
208	182.9	MAGNETIC	-75.2
212	182.6	MAGNETIC	-75.1
216	182.8	MAGNETIC	-75.1
220	182.7	MAGNETIC	-75.3
224	182.9	MAGNETIC	-75.2
228	183.2	MAGNETIC	-75.1
232	183.5	MAGNETIC	-75.1

236	183.8	MAGNETIC	-75.3
240	184.4	MAGNETIC	-75.2
244	184.7	MAGNETIC	-75.1
248	184.8	MAGNETIC	-75.1
252	185.3	MAGNETIC	-75.1
256	185.9	MAGNETIC	-75.3
260	186.4	MAGNETIC	-75.2
264	186.8	MAGNETIC	-75.1
268	187.5	MAGNETIC	-75.1
272	187.8	MAGNETIC	-75.2
276	188.2	MAGNETIC	-75.1
280	188.2	MAGNETIC	-75
284	188.4	MAGNETIC	-75.2
288	188.4	MAGNETIC	-75.2
292	188.2	MAGNETIC	-75.2
296	188.2	MAGNETIC	-75.2
300	188.8	MAGNETIC	-75.3
304	189.3	MAGNETIC	-75.3
308	188.7	MAGNETIC	-75.2
312	189	MAGNETIC	-75.3
316	190	MAGNETIC	-75.4
320	190.9	MAGNETIC	-75.3
324	190.8	MAGNETIC	-75.1
328	190.8	MAGNETIC	-75.2
332	190.7	MAGNETIC	-75