






**Feature**

- Bedding 
- Foliation 
- Fragment size & shape 
- Shearing 
- Fault 
- Vein 

**Mineralization**

- Trace 1-5%
- Common 5-15%
- Abundant 15-60%
- Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		<p>Brown to brown-green oxidized E volcs. Weathering does not allow the differentiation of lithology.</p>							
.7									
.9									
.7									
1.5	5							5	
.8									
.5									
.6									
.8									
.7	10							10	
.9									
1.5									
1.0	15							15	
.7									
1.0									
.6									
1.2	20							20	
1.0									
1.4	22.8	<p>-----  <u>APPROXIMATE BASE OF WEATHERING</u>                      1t. gray green sericitic &amp; carbonate rich lithic tuff &amp; fine agglomerate.</p>							
1.5	25	<p>Gray green rock composed predominantly (80-90%) of vesicular lava fragments. These are gen. irregular and angular (cusps) and often elongate, ranging in size from</p>						25	

**Feature**

Bedding



Shearing



Foliation



Fault



Fragment  
size & shape



Vein



c carbonate  
q quartz

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HQ	1.3	<p>&lt;1mm to &gt;30 cm. (av. .5-1 cm). locally fragments may be purple in colour (less altered?) Vesicles are generally filled with siderite or sericite/chlorite and occ. qtz.</p> <p>The matrix is identical in colour and composition to the fragments - sericite, carbonate chlorite-qtz? It often contains flecks of carbonates (siderite?) to 1-2cm. which form 3-5% (80%) of the rock.</p> <p>Numerous thin unoriented often discont. sid. veins.</p> <p>A local gen. weak fabric is present defined by the p.o. of inequant fragments and vesicles. This may be primary compaction or a deformation fabric.</p>							
NQ	1.4								
	1.5								
	1.5								
	2.8								
	3.0								
	4.0								
	3.0								
	3.0								
	3.0								
	48.0	<p>From 48-55m fragments within the tuff - mainly the larger sizes - are generally purple in colour. This feature is coincident with an interval of calcite veining. Calcite replaces siderite as the carbonate present.</p>							
	50								



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5		Lithology - as above - lt. grey green sericitic lithic tuff.							
2-3									
4									
80									
3.0									
82.9									
3.0		Lt. grey green sericitic tuff-agglomerate Lithology as above except for 20% by vol. of frag. av. 20 cm. in size.							
84.8									
85									
3.0									
90									
3.0									
92.4									
3.0									
94.5									
95									
3.0									
99.1									
99.7									
100									

1m vein - 30° to c.A.  
Fault - broken core

3m qtz vein - 15° to c.A.

1m qtz vein 20° to c.A.

Fault - broken core

2m qtz-c. vein 20° to c.A.

1m qtz vein 20° to c.A.  
1m qtz vein 40° to c.A.

Ry1 - 2 qtz vein 3m.

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		Lithology - as above.							
3.0		1cm sid. vein 60° to c.A.						101.6	
3.0	104.3	<u>lt. grey carbonate rich lithic tuff - agglomerate.</u> Rock contains lt. grey irreg frag. to > 10cm in this interval. Frag. & vesicles are carb. rich. - dol??.						105	
3.0	107.2	<u>Grey green sericitic lithic tuff.</u> (as above) Description as for 56.5-82.9 m.							
3.0	110	1cm sid vein - 45° c.A. 1cm sid vein - 45° c.A.						110.8 110.9	
3.0		1cm sid vein - 20° to c.A.						112.8	
2.5	115	1cm. q. sid vein - 60° to c.A. 1cm sid vein - 30° to c.A.						116.4 116.7	
.5	117.7	Fault? - broken core						117.4	
3.0	120	<u>lt. to med. grey sericitic &amp; carbonate rich lithic tuff - agglomerate.</u> The bulk of the interval is composed of grey irregular vesic. blk. fragments. > 5cm. in a carbonate rich (siderite?) matrix containing finer lithic material. The interval is (extensively) veined by carbonate veinlets av. .5cm thick which have a poor p.o. of 45° to c.A. The matrix of the rock locally approaches 100% cream c. xtaline siderite?						120	
3.0	122.9	<u>lt. grey green locally very carbonate rich lithic tuff and rare agglomerate.</u>							
	125	3cm c vein - 45° c.A.						124.6 125	

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
		Lithology - as above.				
	3.0	1m c vein 25° to c.A.			126.0	
		2cm sid vein 70° to c.A.			126.4	
	3.0					
	130				130	
	3.0	3m cstal sid vein w. 2cm py-qtz vein on upper side. 60° c.A.			131.2	
		1m sid vein 10° to c.A.			133.5	
	3.0				135	
	3.0					
	140				140	
	3.0	1m q/c. vein 45° to c.A.			142.6	
		FAULT - broken core. 70° c.A.			144.4	
	145	1m sid vein 60° to c.A.			145.0	
		1m sid vein 45° to c.A.			145.4	
	3.0					
	148.0					
		148.0 - 154.0 NO CORE - BULL NOSE BIT USED.				
NO CORE	150				150	



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CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	0.5								
	2.5	15cm c. xtal sid. w minor py & qtz. in vein in country rock frag 45° to c.A.						175.5 176.6 177.3	175.5 - 15 cm py 15 at top of 15cm sid vein. py as f.g. diss. in volc. Trace cpy. in siderite labels
	3.0	Lithology - as above - grey green to cream sericitic to locally very carbonate rich lithic tuff. Also locally pyritic.						180	Py v. rare.
	3.0							181.1 181.35 181.7 182.2 182.7 183.0	Py 15 f.g. diss & stockwork of veinlets. (assoc. w. sid. vein loc.) Py rare. Py 15 as vein stockwork locally assoc. with sid. in ven. w. 20° c.A. Py rare Py 20 veins 35° to c.A.
	3.0							183.5 183.7	Py rare Py 30-40 as stockwork of veinlets
	3.0							185	Py rare
	3.0	2cm c. xtal sid. vein 45° to c.A.						186.15 186.25	186.25 - 5cm py 15 stockwork assoc. w. sid. alt. of volc. Py rare
	3.0	Between 187 and 199.6 m numerous carbonate veinlets of at least 2 generations (ear 1) Early pink siderite and 2) later white unknown carbonate. Veins of at least the earlier gen. are associated with local intense siderite alteration of the volc.						187.2 187.95	Py 5-7 (10) as diss, labels & veinlets assoc. w. carbonate.
	3.0	Zone of extensive veining by white coarse xtalive carbonate. Not siderite.						189.5	
	3.0							190 191.0	
	3.0							193.2	
	3.0	1cm c. ven. 30° to c.A.						195	
	3.0							197 200	Py 10 over 5cm. diss. in volc.

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3.0		Lithology - as above - lt. grey green sericitic and (very) carbonate rich lithic tuff with rare fine agglomerate.						201.2	10 cm py 15 as blebs & diss. Py trace.
3.0		10 cm sid, ga ven 60° c.A.						203.05 203.25	Py 10 blebs, diss & veins assoc w. sid.
	205	Fault - slides slides 45° c.A.						203.8 204.9 205	10 cm GaS, Sp. trace in c.xball. Sid vein Py rare
3.0								208.05 202.2	Py 15 blebs assoc. w. 5cm sid ven 46° c.A.
3.0								210	
3.0									Py trace
3.0								215	
3.0		2cm sid ven. 40° to c.A.						215.65	
3.0								219.6	10cm py 5 blebs
3.0								220	
3.0		From 224.6 to 225.1 the tuff is flooded with lt. to dk grey cryptocrystalline silica. mainly affecting the tuff matrix rather than the fragments.						224.6 225	

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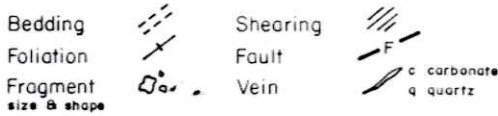
c carbonate  
q quartz

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	225.1	Lithology - as above.				
	225.7	Interbedded lt. grey (tuffaceous) mudstone and cream grey (pyritic) fine lithic tuff. - Interbeds of tuff av 10cm and mudstone av. 20-30cm. Tuff contains fine often pyritized frag. in a v.f.g. mudstone? matrix. Well bedded unit 50 av 45° to c.A. minor aggl.			225.7	Py 5-10 (25) diss. blebs & veins & fine pyritic lithic frag. in tuff. bands.
3.0	227.2	Black carbonaceous siltstone - gen. massive w. rare med grey siltstone interbeds to 10cm. Minor syn. py. fragments.			227.2	Py trace → 1% as blebs & veinlets
	228.15	Sulphide-siderite-qtz. rock - py. av. 60% as diss. blebs and network. Py. overprints local breccia textures. Sid - 30% & qtz 10% as diss. Replaced brecciated carbonate?			227.8 228.15	Py 1-2, sp trace in rem sid vein.
	228.85	Cream grey recrystallized sideritic dolomite - A gen. massive rock w m. grained carb. xtals. Assoc. w. stockwork of (rext) carb. veins.			228.85 228.95	Py 60 as diss. blebs & veinlets
3.0	230.2	Interbedded polymictic (sed?) breccia and well bedded to slumped and brecciated pyritic siltstone and dolomite. Dolomite is dominant in the top of the interval and py. siltstone in the bottom. Characteristic feature of the interval is polymictic breccia bands gen.    to bedding w. frag. from < 1mm. to 30cm. av 1cm. Frag. consist. of py. siltstone, dol. & carb. veins?? Bands of breccia from 2cm to 1m. Bulk of the interval is dolomitic (including the breccia) but the basal 2m is mainly pyritic mudstone which is locally excessively slumped and broken. Interval appears to represent quiescent conditions punctuated by periods of upheaval and breccia deposition. Silt av. 40-45° to c.A.			230 230.2 230.6	Py rare Py 10-15 v.f.g. bedded ft.
3.0	231.5	Med grey to dk. grey locally brecciated dolomite. Gen. massive dolomite with patches of brecciation. Intraclast breccia??			232.7 233.0	Py 20 v.f.g. bed. py. in py. mudstone lam. to 15cm. Py rare - dol. bedded - 45° to c.A.
	235	235.9 - 236.4 - Lt. grey siltstone & py. mudstone band 2cm.    to c.A.			2340 235	Py 20-30 (50) - v.f.g. bedded (slumped & brecciated) py.
3.0	235.85	Lt. grey massive dolomite. A gen. massive interval with no recognisable bedding. Rock is weakly to moderately veined by a stockwork of cream coloured carbonate veinlets. These overprint or earlier generation of veinlets (white).			235.65 235.9 236.4	Py rare Py 5-10 v.f.g. bedded    to c.A. Py rare
3.0	240	Med grey to dk. grey locally brecciated dolomite. Gen. massive dolomite with patches of brecciation. Intraclast breccia??			240	
3.0	241.7	Sed. breccia and brecciated py. siltstone & dol. 15cm. top polymictic breccia underlain by sed. def. py. siltstone & brecciated dol. Dol brecciated by c. veining.			241.7 241.85	Py 1-2 v.f.g. py. mudstone frag.
	242.6	Med grey dolomite breccia. Med grey massive dolomite fragments av .5cm; angular, in a dolomite matrix. The matrix is off white in colour. Brecciation appears to be post depositional and assoc. w. carb. veining in part.			242.6	Py 7-10 - v.f.g. bedded py. (slumped)
3.0	244.8	Cream to lt. grey dolomite - contains angular med grey dol. frag to 10cm as isolated sed. clasts			245	
3.0	246.3	Lt. grey to med grey locally brecciated gen. massive dolomite. Bulk of the interval is composed of a med. grey massive to weakly bedded dolomite which is weakly to extensively veined by a stockwork of dol? veinlets. In addition the rock contains local breccia zones to 30cm composed of frag. to 5cm in a lightest coloured dol. matrix.			248.1 249.4 250	

**Feature**

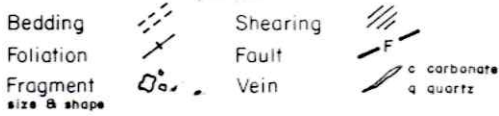


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	3.0	These may be intradast breccias or due to brecciation assoc. with the veining by carbonate.  248.9 - 249.4 , 258.65 - 258.85 - coarse xtal. sid. rock = ext. dol?  Intra clast breccias are prob. the cause of the brecciation as isolated frag. to 10cm and poss. much larger are present in otherwise homog. dol. indicating sed. activity							
	3.0							255	
	3.0								
	2.0							260	
	3.0								
	263.3							263.3	
	1.0	Intertbedded well laminated grey brown pyritic mudstone & dolomite, grey dolomite & minor f.g. tuff. & sed. breccia  A complexly interbedded mixture of the above rock types. Si/So - 30-45° to c.A. pyritic sed. breccia bands to 5cm. Dolomite is ext. veined by cream carbonate & to Si. Veining causes local brecciation of all rock types.						265	Py 3-5 as v.f.g. bedded py. in thin laminations amongst other rock types.  Py 30-40 v.f.g. bedded (17. in py. mudstone & py. dol.  Py 2-3 v.f.g. bedded.
	2.2							266.8	
	267.1							267.1	
	267.1	dk grey bedded chert - 50-30° c.A. f.g. cubic xtals diss.?						267.85	
	267.85	lt. to med grey brecciated dol. - brecciated by c. veining?						269.0	Py rare
	269.0	lt. green grey carb. rich tuff - grading downwards to carb. altered lithic? tuff. Lower fault contact?						270	
	3.0	Grey silicified dolomite? A highly silicic rock ext. veined by a stockwork of qtz veins. weakly pyritic. Interval grades into unit below.						270.3	Py 1-2 v.f.g. in blebs.
	270.3							270.8	
	271.65	Sideritic-siliceous-pyritic breccia? - fissure lode? Siderite ≈ 65% silica 25% Py to 5% Sp, Ga-trace. Coarse xtal. sid. assoc. w. silica. Rare country rock frag. internally but numerous on lower margin - sharp lower contact						271.65	Py 3-5, Sp 1-2 Ga trace - all as diss. & blebs.
	2.5	271.65 - 276.1 Black carbonaceous shale - contains sig. amount (≈ 15%) broken & contorted white ver qtz? frag. as well as minor contorted py. bands. - due to proximity to fault zone? Si av. 30-40° to c.A.							
	273.7								
	275	<b>FAULT ZONE</b> - Broken core & pug to 275.3m.						275	

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2.5	275.3 - 276.1	5m sid ven 40° c.A. Lt. grey siltstone - weakly bedded at low angle to c.A. Minor sed. rafting of beds? sid. vein breccia			275.8 - 276.6	Ca 1-2 cpy trace 5m sid ven.
3.0	277.3 - 279.1	40m ext. dol?? // c.A. at contact. 1cm sid ven - 70° c.A. Black carbonaceous shale - uniform rock containing minor soln? cavities and def. qtz veins. Contorted interbedded black carbonaceous siltstone > lt. grey siltstone			277.0 - 277.3	277.3 - 278.3 as blebs in ext. dol? // c.A.
3.0	280 - 281.8	Rock is interbedded on the scale of 1-2 cm's and shows much sed. defm. in form of slumping rafting & brecciation of beds. S varies from // to h to c.A. 281.8 - 5m sid ven 45° c.A.			280 - 281.8	Ca & cpy trace in 5m sid ven.
2.8	283.4 - 285	283.2 5m sid. ven. 25° c.A. 283.4 Fault - breccia core Lt. grey siltstone Rock is very weakly pyritic. Uniform well laminated rock showing evidence of minor sed. defm.? in form of brecc. of beds? 2cm qtz-py ven 20° to c.A.			283.2 - 283.4	Py 1-2 v.f.g. dss.
3.0	285 - 287.1	1m sid ven. 40° to c.A. 287.1 - dol. fragments to 5m			285.0 - 286.4	
1.5	290.0 - 290.4	2cm qtz. vein stockwork 5° c.A. FAULT ZONE - Broken core & pug.			290.0 - 290.2	Py 5-7 veins
4	290.4 - 291.1	Interbedded lt. grey to black siltstone & mudstone Well cleaved rock siltstone at low angle, gen 15° to c.A. vein qtz.			291.1	Py trace v.f.g.
1.0	294.8 - 295				294.8 - 295	
3.0	297.1 - 300	VT Dk. grey green sericitic fine lithic tuff. Rock begins as layered fine grained tuff and grades into a fine lithic tuff by about 298m. The layering in the top of the unit is enhanced by the cleavage. The bulk of the rock (95%) is fine lithic 1cm py ven 10° c.A.			297.1 - 300	Py v. rare

