

826107 Furry Creek  
 926/10E, 11W  
 FC-16 → FC-25

HOLE NUMBER: FC-16

MINNOVA INC.  
 DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: FURRY.89 PLOTTING COORDS GRID: WATERSHED ALTERNATE COORDS GRID: FURRY CREE COLLAR DIP: -45° 0' 0"  
 PROJECT NUMBER: 614 NORTH: 102.00S NORTH: 0+ 5S LENGTH OF THE HOLE: 176.78m  
 CLAIM NUMBER: BEE EAST: 400.00W EAST: 4+ 5W START DEPTH: 86.26m  
 LOCATION: FURRY CREEK ELEV: 898.00 ELEV: 898.00 FINAL DEPTH: 263.04m

COLLAR GRID AZIMUTH: 357° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 40° 0' 0"

DATE STARTED: August 10, 1989 COLLAR SURVEY: NO PULSE EM SURVEY: NO CONTRACTOR: FRONTIER  
 DATE COMPLETED: August 13, 1989 MULTISHOT SURVEY: NO PLUGGED: NO CASING:  
 DATE LOGGED: August 13, 1989 RQD LOG: NO HOLE SIZE: NX CORE STORAGE: TRITON, SQUAMISH

PURPOSE: TO EXTEND FC-16 TO TEST THE FC HORIZON AND OBTAIN IMPORTANT STRUCTUAL INFORMATION.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
157.90	-	-33° 0'	ACID	OK		-	-	-	-	-	
207.90	-	-33° 0'	ACID	OK		-	-	-	-	-	
225.86	-	-33° 0'	ACID	OK		-	-	-	-	-	
248.41	-	-33° 0'	ACID	OK		-	-	-	-	-	
260.00	39° 0'	-28° 0'	MULTISHOT	OK		-	-	-	-	-	
83.21	39° 0'	-37° 0'	TRO-PARI	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
86.26 TO 123.60	RHY FLOW «RHY FL»	colour: light green grain: f.g. -massive, siliceous -featureless -aphyric -occasional zones of ghost fragments possible brecciated zones -weak to moderate pseudo breccia -lower 96.65 Fault Zone gouge 110.64 - 111.00 113.60 - 113.85 «QPXT» Narrow screens of quartz phyric crystal tuffs strong sericite and 7-10% py 116.13 Fault Zone 2cm, gouge		weak to mod. ser.  116.60 - 122.60 «m. carb» pitted due to carbonate alteration	1% py tr cp, sph  112.4 - 115.67 «tr - 1% cp, sph» 1-2mm veinlets associated with pyrite	23255 93 - 96  23256 107.64 - 110.64 problems distinguishing between ashes and flows 23257 113.85 - 114.35
123.60 TO 124.47	DAC LT`GMS' «LT»	colour: white and light green grain: m.g. -ghost fragments strongly attenuated numerous vitrics				
124.47 TO 124.66	«PY/EXH» PYRITE HORIZON	colour: white and light green grain: f.g. -siliceous materia, ash and 2cm massive fine-med grain pyrite	65		«py 15%» «tr. sph»	possible core loss at sulphides 23258 124.25 - 124.75 ultra fine
124.66 TO 176.55	«DAC ASH»	colour: army green grain: ultra fine grain -massive, no bedding evident -aphyric -homogeneous -frequent fine (<1 mm) veinlets of pyrite -some 1-2m sections have been silicified 154.40 FLT 174.04 - 175.00 «FMD» 154.12 - 154.52 «FMD» 159.57 - 160.10 «FMD» foliated mafic dykes/sills or flow. Mafic lapilli could be chlorite filled lapilli, silica filled Amydules in middle of unit		mod - strong sericite	2% py tr cp frequent veinlets of py and silica at various angles to core axis  136.8 cp veinlet, 1cm in width 159.34 - 159.40 «cp stgr» py 20 - 25% cp 2-3% tr sph siliceous stringer at 70 to one axis some carbonate	23259 143.0 - 146.0  23260 159.07 - 159.57

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
176.55 TO 202.94	«DAC» «ASH/LT»	colour: green grain: f.g. and m.g. -alternating screen of ultra fine ashes, lapilli tuffs including fragments of felsic flow possibly hyaloclastic spalled off felsic flow fragments. -occasional 2-3 cm chert beds, aphyric barren ‡187.55 - 195.13‡ «mud/ash» -very fine ash with argillaceous component ‡195.13 - 195.40‡ «FLT» 10cm fault gouge and strongly foliated rock. 200.90 Beds at	45	nil	1-2% py disseminated in certain beds.  3-5% py f.g. disseminated and as very fine laminae	23261 166.73 - 169.73  23262 187.76 - 190.76 Sulphide muds.
202.94 TO 210.43	DAC FLOW BRECCIA «FL BX»	colour: white and lt. green grain: f.g. -large brecciated lapilli and blocks -intensity of brecciation increases toward dyke ‡207.70‡ FLT 207.40 - 207.80 Quartz vein, barren		‡209.40 - 210.43‡ «BIOT» biotite mantling following dyke	205.25 - 205.30 py stgr tr - 1% cp	tectonic breccia?
210.43 TO 220.68	«MD» MAFIC DYKE	colour: grey grain: f.g. and m.g. -aphanitic matrix dominates with 1-2mm feldspar crystals. -215.0 - 218 xenoliths of biotite-hornblende granite angular and fresh		moderate carbonate	nil	presence of granitic xenoliths and biotite hornfels raises possibility that dyke fills major structure.
220.68 TO 235.40	«AND XT/LT»	colour: green -biotite halo masks identity of -cherty at dike boundary but remnant features suggest that it is part of the mafic LT -feldspar phyrlic -fragments of porphyritic (feldspar) andesite flow seem to increase toward base, however seperated from underlying flow unit by a coarse ash (mafic from 233.80 - 235.40)		‡220.68 - 223.37‡ «BIOT» dike halo wk-mod epidote	tr py	possible mafic flow breccia  23263 225.86 - 228.86
235.40 TO 263.04	«AND FL BX» FLOW BRECCIA  E.O.H.	-numerous fragments of dacite (dome) and andesite (porphyritic) flows mix in an andesitic ashy matrix. 245.60 : cherty ash beds are 70 to the core axis -sausseritized felsic fragments -cherty rims - some porphyritic frags. -fragment - rich -fragments rounded to subrounded -fragments often 1-2mm in size		wk. epidote minor silicification of matrix in some zones matrix silicification appears to intensify toward base	tr py  254.40 - 254.55 pyrite f.g. and m.g. aggregates form 1 cm veins	23264 242.52 - 245.62  23265 260.04 - 263.04

HOLE NUMBER: FC-16

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 28-November-1989

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
263.04 TO 290.68						

HOLE NUMBER: FC-16

DRILL HOLE RECORD

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PAGE: 4

HOLE NUMBER: FC-16

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL						COMMENTS			
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM		AS PPM	SB PPM	
	0.00	0.00	0.00																



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
86.26 TO 123.60	DAC FLOW «RHY FL»	colour: lt. green grain: f.g. -massive, siliceous -featureless -aphyric -occasional zones of ghost fragments possible brecciated zones -weak to moderate pseudo breccia -lower 96.65 Fault Zone gouge ‡110.64 - 111.00‡ ‡113.60 - 113.85‡ «QPXT» Narrow screens of quartz phyric crystal tuffs, strong sericite and 7-10% py 116.13 Fault 2 cm gouge		weak to mod ser.  ‡116.60 - 122.60 «m. carb» pitted due to carbonate alteration	1% py tr cp, sph  ‡112.4 - 115.67‡ «tr - 1% cp, sph» 1-2 mm veinlets associated with py	23255 93 - 96  23256 107.64 - 110.64  problems distinguishing between ashes and flows 23257 113.85 - 114.35
123.60 TO 124.47	DAC LT`GMS` «GMS»	colour: white and light green grain: m.g. -ghost fragments strongly attenuated numerous vitrics				
124.47 TO 124.66	«PY/EXH» PYRITE HORIZON	grain: f.g. -siliceous material ash and 2 cm massive fine to medium grain pyrite.	65		«py 15%» «tr. sph»	possible core loss at sulphides 23258 124.25 ultra fine
124.66 TO 176.55	«DAC ASH»	colour: army green grain: ultra fine grain -massive, no bedding evident -aphyric -homogeneous -frequent fine (<1mm) veinlets of pyrite -some 1-2m sections have been silicified 154.40 FLT ‡174.04 - 175.0‡ «FMD» ‡154.12 - 154.52‡ «FMD» ‡159.57 - 160.10‡ «FMD» foliated mafic dykes/sills on flows. Mafic lapilli could be chlorite filled lapilli, silica filled amygdules in middle of unit.		«str. ser»  mod-strong sericite	2% py tr cp frequent veinlets of py and silica at various angles to core axis. 136.8 cp veinlet, less than or equal to 1 cm in width. ‡159.34 - 159.40‡ «cp stgr» py 20-25% cp 2-3% tr sph siliceous stringer at 70 to core axis some carbonate	23259 143 - 146  23260 Trace only 159.07 - 159.57
176.55 TO 202.94	DAC ASH/LT «DAC LT»	colour: green grain: f.g. to m.g. -alternating screens of ultrafine ashes, lapilli tuffs including fragments of felsic flows possibly hyalocastite spalled off felsic flow frags		nil	1-2% py disseminated in certain beds	23261 166.78 - 169.73

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-occasional 2-3cm chert beds, aphyric barren ↓187.55 - 195.131 «MUD/ASH» -very fine ash with argillaceous component ↓195.13 - 195.40 «FLT» 10cm fault gouge and strongly foliated rock 200.90 Beds @	60  45		3-5% py f.g. disseminated and as very fine laminae	23262 187.76 - 190.76 Sulphide muds
202.94 TO 210.43	DAC FLOW BRECCIA «DAC FLB»	colour: white and green grain: f.g. -large brecciated lapilli and blocks -intensity of brecciation increases toward dyke		↓209.40 - 210.43 «BIOT» biotite mantling	205.25 - 205.30 py stgr tr - 1% cp	Tectonic breccia?
210.43 TO 220.68	«MD» MAFIC DYKE	colour; grey grain: f.g. and m.g. -aphanitic -matrix dominates with 1-2mm feldspar crystals 215.0 - 218 xenoliths of biotite - hornblende granite, angular and fresh		carbonate reaction	nil	presence of granitic xenoliths and biotite hornfels raises possibility that dyke fills major structure.
220.68 TO 235.40	AND XT/LT «AND XT/LT»	colour: green -biotite halo masks identity at dyke boundary but remnant features suggest that it is part of the mafic LT -feldspar phyrlic -fragments of porphyritic (feldspar) andesite flow seem to increase toward base, however separated from underlying flow unit by a coarse ash (mafic from 233.86 - 235.40)		↓220.68 - 223.37 «BIOT» dyke halo wk - mod. epidote	tr py	possible mafic flow breccia  23263 225.86 - 228.86
235.40 TO 263.04	«AND FL BX» FLOW BRECCIA  E.O.H.	-numerous fragments of dacite (dome) and andesite (porphyritic) flows mix in an andesitic ashy matrix 245.60 cherty ash beds are 70 to the core axis -saussuritized felsic fragments -cherty rims on some porphyritic frags -fragment - rich -fragments rounded to subrounded -fragments often 1-2 cm in size		wk. epidote minor silicification of matrix in some zones matrix silicification appears to intensify toward base	tr py  254.40 - 254.55 pyrite f.g. and m.g. aggregates form 1cm veins	23264 242.62 - 245.62  23265 260.04 - 263.04



HOLE NUMBER: FC-16E

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS				
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM					
23258	124.25	124.75	0.50																			
23260	159.07	159.57	0.50																			

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23255	93.00	96.00	3.00	13.21	0.035	0.09	1.55	1.32	2.76	0.11	2.02	0.07	75.21	0.16	0.35	96.88	0.2	15	33	7	23	1	76	5
23256	107.64	110.64	3.00	12.55	0.075	0.24	2.83	1.93	2.81	0.13	0.28	0.08	74.68	0.18	0.78	96.58	0.2	17	72	422	21	1	68	5
23257	113.85	114.35	0.50	10.39	0.035	0.2	7.26	0.46	3.79	0.19	0.01	0.12	71.17	0.39	3.45	97.45	1.3	14	44	1863	49	1	429	5
23259	143.00	146.00	3.00	14.5	0.05	0.15	4.71	2.04	3.85	0.14	0.01	0.1	68.86	0.54	0.9	95.85	0.4	15	49	86	30	1	92	5
23261	166.73	169.73	3.00	14.53	0.05	0.18	4.33	2.68	3.97	0.17	0.01	0.1	68.58	0.53	0.63	95.75	0.2	19	47	208	30	1	102	5
23262	187.75	190.76	3.01	16.38	0.095	0.73	6.02	2.16	6.79	0.27	0.79	0.16	59.71	0.69	1.68	95.48	1.3	1	133	180	55	1	198	5
23263	225.86	228.86	3.00	16.42	0.02	2.53	7.49	0.6	6.21	0.25	3.37	0.19	55.56	0.89	1.52	95.04	1.7	2	41	38	67	2	204	5
23264	242.62	245.62	3.00	16.43	0.035	3.61	5.99	0.11	4.95	0.17	4.27	0.18	58.83	0.98	0.34	95.88	2.4	12	37	9	43	2	95	5
23265	260.04	263.04	3.00	15.73	0.02	3.38	6.29	0.01	3.52	0.1	5.14	0.17	60.78	0.99	0.85	96.97	2.3	20	34	33	38	1	58	5





FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		weak to moderately foliated, alternating 1-2m beds of LT and XT felsic fragments dominate, epidote patchy. Some zones felsic lithics and lapilli not attacked. -lithics tend to be angular to sub-angular -crystals in crystal tuffs are feldspar, subject to epi alteration. 60.35 - flt 64.54 - 65.03 bed good contacts at 71.20 «FLT»	48  80	chlorite		crude fining upward sequences LT-XT-ASH ever about 5m intervals 'some felsic lithics display reaction rims.  23129 65.84 - 68.84
78.80 TO 164.10	AND-DAC ASH XT «AND XT»	colour: green to grey grain: fg -extremely well bedded at top of unit. XT beds alternating with aphanitic beds generally 3-5m thick epidote attacked XT beds. fol'n at includes: 79.10 FLT 88.0 «FLT» 2cm gouge. 93.40 «FLT» 97.85 - 98.2 milky quartz vein - barren 109.96 «FLT» 111.60 FLT  121.8 - 121.9 Qtz + chlorite vein - barren  ctc gradational/ctc irregual and interrupted	60  45	moderate epidote  118.1 - str epidote mod-str chlor epidote altered veinlets which parallel fol'n.  epidote patches or knots occur which display tension gashes as a response to subsequent deformation.	tr - 1% pyrite disseminated tr. sph, tr cp 92.90 - 93.1 tr cp, tr sph. Occurs honey brown with purplish boundary. 126.19 tr cp and barite? in veinlet 1-2mm  below 149.0 2-3%py 151.35 Qtz - py stg <5cm. strong sulphide (py) zone at lower ctc 163.35 - 163.85 «py 40%» medium to coarse grain pyrite forming a band at approx. 30 to c.a.	23130 88.78 - 91.78 23131 42.47 - 115.47 23132 135.18 - 138.18 23133 156.21 - 159.21 Geochem Cu, Pb, Zn, Au, Ag, Ba 23134 163.35 - 163.85 potential horizon
164.10 TO 188.05	RHY-DAC LT «AND LT»	colour: grey -weak foliation, distinctive fragment supported lapilli tuff beds which seem to fine upwards into fine ash beds -ash beds restricted to upper 6m of unit - lapilli tuffs are heterolithic, but the dominant fragment type are rounded siliceous (?) grey clasts which often contain disseminated pyrite -occasional fiamme «5% in upper section becoming more abundant toward base -some chert fragments -fragments generally well sorted 5-6mm size with occasional 1-2cm size felsic lithics		«m ser» sericitized matrix          strong chlorite at bottom etc	«5% py» 3-5% py disseminated	high pyrite content sericite alteration of matrix gives LT the appearance of welding  23135  23136 184.15 - 187.15

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
188.05 TO 199.60	AND-DAC ASH/XT «AND ASH»	colour: green - grey grain: f.g. and m.g. -ctc gradational over 1m -fine ash tuff - homogeneous, thick beds > 1m contains occasional felsic lithic therefore, could be classified as a matrix - supported LT in some where concentrations of lapilli occur. 194.85 cherty bed (?)  193.16 - 6cm wide feldspar phyric brown dike.	35	mod chlor/ser	1-2% py ‡189.20 - 189.80‡ «EXH» siliceous zone contains 5-7% medium grain pyrite, 2-3% magnetite tr - 1% anydrite and or barite tr.cp and tr. sph sph is very light purple orientated at 38 deg to ca	Geochem Cu, Pb, An, Au, Ag, Ba 23137 189.28 - 189.88  horizon occurs at upper contact within a massive ash sequence
199.60 TO 229.00	AND TBX/ ASH «AND TBX ASH»	-somewhat nebulous etc, possibly all part of the same fining upward cycle. -weak to no fabric developed -distinctive light: greenish to pink alteration? attacking felsic blocks -homogeneous fine grain ash beds occur which fine upwards to ultrafine - silicified ash resembles chert in places bedding includes: occasional heterolithic lapilli tuff screen ‡207.72 - 208.20‡ «ID» siliceous tuff(?) faintly fsp. phyric rip-up of unit occurs uphole a few centimetres - no chill margins 224.5 - 229.0 blocks and broken fragments of felsic (dome?) material in matrix of fine ashes. ctc gradational	30  40	fresh unit  wk - mod epidote alteration weakens downhole.	tr - 1% py tr cp 199.03 - tr - 1% cp  py 2-3% fine grain restricted to <1cm veinlets forming a network  28.5 - 219.0 1-2% py, 1% mgt in veinlets <1mm associated with silicification.	23138 191.41 - 194.41  23139 213.56 - 216.56  altogether fresher unit below 209.0  23140 207.72-208.22
229.00 TO 254.13	ANDESITE ASH «AND ASH»	colour: army green grain: ultra fine -homogeneous aphyric ash beds interrupted by occasional epidote veinlet and felsic fragment thick bedded at BELOW 249.02: lower part of unit disrupted beds + epidote attacking certain fragments. Possible dome fragments fallen into ash beds?	30	nil  wk-mod epi	nil  232.40 - 232.50 epidote vein with fleshy pink mineral barite?	similar to lower contact ashes encountered in 1986 drill program 234.65 - fining indicates tops downhole 23141 235.0 - 238.0 23142 25.00 - 25.30 massive flow fragments.

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254.13 TO 258.17	AND LT	-weak to moderate foliation heterolithic fragment - rich : contains cherty frags, mafic frags, and felsic frags up to 5cm size. -some felsics have a reaction rim -chlorite clots 1-2mm		weak to moderate epi	1-2% pyrite contains sulphide - rich fragments	255.12 Anhydrite bed(?) approximately 1cm wide.

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PAGE: 5

HOLE NUMBER: FC-17

ASSAY SHEET

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Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS		
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM			
23134	163.35	163.85	0.50								7	91	61	2.5	19	150				
23137	189.28	189.68	0.40								1180	1330	57	2.4	10	650				



Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SI02 %	TIO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23126	8.69	11.69	3.00	17.11	0.051	2.92	8.98	0.6	6.68	0.36	4.53	0.21	52.3	1.03	0.75	95.52	1	1	127	56	86	1	225	1
23127	38.56	41.56	3.00	17.96	0.016	6.22	8.49	0.48	6.18	0.32	3.69	0.24	50.39	1.07	0.13	95.19	2	1	39	61	53	1	164	4
23128	48.01	51.01	3.00	17.21	0.121	0.64	4.53	3.96	4.47	0.18	1.58	0.12	62.62	0.56	0.41	96.39	0.6	7	106	30	49	1	105	9
23129	65.84	68.84	3.00	17.3	0.017	2.8	9.09	0.92	7.64	0.29	3.97	0.22	51.22	1.12	1.15	95.72	2	1	22	13	68	1	160	3
23130	88.78	91.78	3.00	17.29	0.014	3.3	9.11	0.67	6.52	0.36	4.87	0.22	50.46	1.13	1.2	95.14	2.2	1	51	992	108	1	1264	3
23131	112.47	115.47	3.00	16.73	0.064	2.1	9.81	2.36	7.27	0.33	2.06	0.2	51.96	1.01	2.34	96.23	1.5	1	81	98	57	1	173	2
23132	135.18	138.18	3.00	17.76	0.049	4.39	9.06	1.3	6.31	0.37	3.1	0.23	51.77	1.07	0.48	95.87	1.7	1	95	102	57	1	221	2
23133	156.21	159.21	3.00	17.81	0.061	2.3	10.52	2.32	7.24	0.32	2.4	0.22	48.35	1.09	3.3	95.94	1.5	1	69	71	72	1	150	8
23135	165.65	168.65	3.00	14.85	0.028	1.18	7.95	2.4	5.98	0.19	1.83	0.16	57.85	1.08	3.2	96.69	0.4	5	31	7	50	1	98	3
23136	184.15	187.15	3.00	15.24	0.023	1.03	11.41	1.89	6.62	0.24	2.33	0.19	52.51	1.12	5.2	97.81	1.5	5	34	12	73	1	112	2
23138	191.41	194.41	3.00	15.41	0.047	1.85	8.47	2.68	6.98	0.22	1.04	0.19	54.36	0.84	2.54	94.63	1.9	1	79	9	300	1	214	1
23140	207.72	208.22	0.50	14.54	0.074	1.76	3.35	1.91	0.78	0.03	5.14	0.08	69.39	0.24	1.07	98.36	0.4	24	290	7	14	1	26	1
23139	213.56	216.56	3.00	17.19	0.113	2.25	6.78	2.31	4.88	0.1	3.83	0.15	58.89	0.76	0.09	97.35	1.8	10	77	32	45	1	58	2
23141	235.00	238.00	3.00	17.28	0.031	1.93	7.02	1.74	6.26	0.25	3.53	0.18	56.55	0.88	0.12	95.77	1.6	1	49	12	55	1	117	2
23142	250.00	253.00	3.00	17.14	0.022	6.93	8.55	0.97	6.36	0.31	2.39	0.26	51.26	0.96	0.06	95.21	2.2	1	52	87	62	1	170	3



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.66	CASING					
3.66 TO 16.83	AND ASH/LT XT «AND ASH/LT»	colour: lt. green and dk. green grain: f.g. and m.g. -ash is fine grain to ultra-fine grain; well bedded and gives a variety of bedding angles. -some beds are ptgymatically folded -LT - felsic lithics dominate -numerous feldspar crystals preferentially epidote altered occur within lapilli - size tuffs. -numerous mafic looking fsp phyric intrusive fragments ‡9.80 - 9.82‡ «FLT» 2 cm gouge ‡17.80‡ «FLT» ‡19.80‡ «FLT» ?gradational contact?		weak epidote	tr. py.	typical aquagene tuffs - slump deformation a response to water turbulence as a result of volcanic activity  23143 11.28 - 14.28
16.83 TO 39.61	AND FLOW «AND FL»	colour: light green dk green grain: f.g. and m.g. -massive, feldspar porphyritic, matrix supported -fsp are chaotically arranged and range in size up to 4mm (long axis) -contains irregular 3-4mm shaped silica beds - possibly amygdules -appears to have chilled at lower ctc -upper ctc may be lost due to faults 24.62 - 24.71 reddish purple fine 24.85 - 24.93 grain dikes ‡32.30 - 33.00‡ «ID» ‡33.40 - 35.50‡ «ID» -intermediate dikes - feldspar porphyritic - good chills, no epidote.		weak epidote attacking fsp phenocrysts	nil	possible sill or dike -numerous fragments of this unit occur above and below this unit.  23144 35.60 - 38.60
39.61 TO 89.45	AND LT/ASH «AND LT»	colour: green grain: f.g. to m.g. -heterolithic, weak foliation at -crudely grading uphole into fine ashes over intervals of 1-2 metres -mafic feldspar phyric fragments form significant portion of coarser tuff sections -mafic frags larger and more prevalent in upper portion of unit 59.6 - 60.00 ASH	30	nil	tr 1% py disseminated occasional sulphide fragment	occasional block size fragment  23145

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		includes; †49.96 - 53.55† «ID» -intermediate dyke feldspar porphyritic, good chill margins 59.67 fault 1 cm gouge †70.25 - 71.93† «FD» -siliceous - faintly fsp phyric and weak foliation 1-2% py †77.32† «FLT» 2cm gouge †80.97 - 83.33† «CHT» chert clots and disseminations possibly slumping into fractures †183.68† «FLT» ctc - broken, sharp at	40	cherty zone accompanied by massive chlorite vein (?) - seeming to fill fractures or cavities.	ash beds can contains up to 7% very fine grain py.  tr. cp, tr.py	55.00 - 58.00  identical to unit logged as siliceous tuff in FC-17. ash beds show uphole fining
89.45 TO 94.05	ANDESITE FLOW «AND FL»	colour: lt. green grain: f.g., m.g. -massive to wk foliation -matrix supported -homogeneous matrix -ultra fine grain matrix -feldspar 1mm size often very weakly epidotized 92.70 Flt 1cm gouge at	45  30	-weak epidote, weak - mod ser	local concentrations of py and magnetite 91.60 py and magnetite clots <1cm irregular shaped 92.0 - 92.30 py 2-3% mgte 1-2% -magnetite forms as fine gr. clots on elliptical shapes - sometimes discontinues veinlet: boundaries of mag clots have altered to py py forms med gr.bands at 45 to the c.a band are <1cm	vesicular flow top at upper etc  23146 90.0 - 93.0
94.05 TO 100.05	AND-DAC XT-LT «AND XT»	colour: grey grain: m.g. ctc broken -fragment supported quartz (?) plus felsic lithics -feldspar crystals impinge on other crystals trace sericite in matrix gives appearance of welding.		mod. ser. of matrix weak epidote	1-2% py	
100.05 TO 114.65	DACITE ASH EXHALITE «DAC ASH EXH»	colour: green grain: f.g m.g. ctc seems to parallell foliation and is marked by strong chlorite alteration -fine grain rock with heavy pyrite plus silica -possibly originally a fine ash or mud sequence -numerous wormy silica veinlets, clots and disseminations -original rock type obscured by alteration		«s. chlor» strong to intense chlorite	«5-7% py» 1-2% mgte includes 102.45 - 102.55: SMS 30% py, 10% mag forms beds/bands at 40 to core axis.  py usually med. to coarse grain aggregates and forms at boundaries of magnetite 107.5 - 107.6	possibly a massive flow?  Geochem trace 23147 102.45 - 102.95  23148 105.77 - 108.77

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-silica appears to engulf fragments of volcanic which then become chloritized.  CTC gradational			mag and pyrite forming stockwork type veining.  113.30 - 114.65 pyrite 15-20% mostly med. grained variety, locally up to 40%	23149 114.10 - 114.60 geochem traces
114.65 TO 146.05	ANDESITE FLOW «AND FL»	colour: lt. green grain: f.g. -granular looking unit -massive to v. weak foliation -occasional 1mm rounded clast. or possible amygdules ‡128.50‡ «FLT»  ctc - sharp at felsic fragment at ctc	45	weak epidote attacks veins and veinlets 127.60 - 127.85 strong to intense chlorite and hematite on foliation planes  magnetite - pyrite bands or zones have chlorite alteration often 20 - 30 cm on either side of the zone	10% py remarkably few sulphides considering adjacent unit 123.00 - 123.15 tr. 1% sph cut by later barren qtz-carb vein. 127.60 - 128.60 py 5-7% mgte 3-5% 127.60 - 127.85 py 7-10% mag 15-20% forms discontinuous bands at 40 deg 127.85 - 128.20 lean zone 3-5% py in chloritized volcanic. ‡128.20 - 128.60‡ width approx py 10-15% med /coarse gr. aggregate mag 5-10%? specularite 137.02 - 137.12 magnetite - pyrite band py 2-3% mgte 1-2%	No feldspar crystals in upper part of unit becoming feldspar phyrlic lower down 23150 118.52 - 121.52  ASSAY 23151 127.60 - 128.60 pyrite typically med. to coarse gr. and forms aggregates and clusters.  zone ground by drill crew true thickness of zone approximately 0.6 m 2cm chlorite fault gouge within zone. 23152 131.00 - 134.00
146.05 TO 157.90	DAC ASH/LT «AND LT»	-interbedded intermediate lapilli tuffs, and ashes -cherty zones at top between 146.05 and 148.0 slumped and disturbed beds. -fresh, lt screen are well sorted and provide bedding contacts at about 152.1 - 152.15 milky white qtz - carb. vein barren	65	‡146.05 - 146.80‡ «m chlo.» chlorite streaks	‡140.20 - 140.35‡ «mgte» py and mag and silica form a narrow 2cm band at 35. accompanied by possible narrow barite vein	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		‡156.15 - 157.90‡ «And flow/sill» coarse 1-2mm amygdules typical well bedded and well sorted lapilli tuffs			‡142.75 - 142.86‡ «mgt» 2-3% mgte, 3-5% py coarse grain py cubes 1-3% fine gr. disseminated py. 150.05 - 156.15 1-2% tr mgte, stringer	23153 157.9 - 160.9
157.90 TO 171.92	DAC FL BX «AND FL BX»	‡161.20 - 161.24‡ «FLT» clay gouge zone -massive in places, weak pseudo bx. developed -sometimes faintly feldspar porphyritic -some zones pseudo bx resembles dac flow/dome sequences -numerous quartz veins and veinlets <1cm usually barren and milky white - some have carbonate		cream of wheat texture observed in some places tiny 1mm elliptical shapes - possibly accretionary lapilli?  170.4 - 180.0 strong silica chloritic zones accompany quartz veining	py 1-2% in m.g. aggregates and clots 164.70 - py 5-7% coarse gr. in vein	problem unit  23154 164.29 - 167.29
171.92 TO 184.52	AND-DAC TBX - LT «AND TBX/LT»	colour: lt. green to grey grain: c.g. -heterolithic -fragment - supported poor sorting -felsic lithics appear to dominate -some pumice frags -weak foliation at seem to affect only some fragments lower section of unit ‡183.65 - 184.52‡ «DAC LT» finer gr., well sorted stronger foliation, occasional vitric clast - contains streaky pyrite 3-5% sharp etc	35	weak ser to nil     moderate ser	1-3% py very fine grain disseminate sulphides occasional clots of medium gr. py. -sulphide content may be higher.	spectacular well preserved fragments   23155 178.08 - 181.08  reworked 'GMS'
184.52 TO 185.30	«ASH EXH»	colour: olive green grain: v.f. grain -homogeneous fractured massive ash or fragments of underlying flow -cherty zone		mod - str ser	tr. sph 1-3% py as very fine veinlets	Horizon Geochem traces 23156 184.52 - 185.02
185.30 TO 194.20	AND-DAC FL «AND FL»	-massive, occasionally fsp. phyrlic -occasional poss. amygdules -frequently veined with qtz - carb veins <1cm and clots of fleshy pink mineral (barite?) lower etc shapr but irregular		-mod - str chlor -chlorite accompanies sulphide rich zones	1-3% py usually as coarse gr. aggregates in veins 186.15 - 186.2 py 5-7% tr-1% mgte 194.05 - 194.2 lower etc 7-10% py 1-2% mgte m.g. clusters	23157 186.5 - 189.5 Horizon?

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
194.20 TO 235.15	AND TBX/ASH «AND TBX»	-heterolithic -fsp. phyrlic mafic fragments dominate -some felsic frags often containing py -ash units are coarse to ultra fine gr. and contain v. fine gr. pyrite often as laminae -occasional cherty zones in ash 219.40 - thin bedded astres give bedding 228.8 - 229.10 Accretionary lappilli tuff 230.0 - ash beds fining downhole	25  75	«m. epi» feldspar within mafic fragments have been sausseratized -fragment rims often attacked by epidote py within felsics	1-2% py tr anhydrite  [214.83 - 215.25] «ANH» anhydrite and v. f. grain pyrite laminae	AND BLT block, lapilli tuff, ash TBx, LT, ash 194.20 - 198.20 coarse fragmental 198.20 - 207.45 Ash 207.45 - 211.84 TBX 211.84 - 215.25 Ash 215.25 - 227.45 TBX 23158 214.75 - 215.25 ASH+ANH, Barite(?) 227.45 -230.15 Ash 23159 230.30 - 233.30
235.15 TO 245.67	ANDESITE ASH «AND ASH»  E.O.H.	colour: army green grain: ultra fine grain -homogeneous -occasional fine crystal rich beds -bedding variable 236.05 -abundant anhydrite/gypsum veins -usually 1-2 cm thick and oriented at about	80 45	wk - mod ser	«ANH»  -1-2% pyrite	hematitic chert at upper contact.  fining again indicates tops downhole 23160 242.67 - 245.67

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL							COMMENTS				
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM		AS PPM	SB PPM		
23147	102.45	102.95	0.50																	
23149	114.10	114.60	0.50																	
23151	127.60	128.60	1.00	.006	.01	.02	3.8	.02												
23156	184.52	185.02	0.50																	



Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SI02 %	TIO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23143	11.28	14.28	3.00	16.21	0.049	3.62	7.04	1.59	4.08	0.18	3.7	0.18	58.59	0.98	0.14	96.36	1.9	9	113	43	50	1	95	2
23144	35.60	38.60	3.00	17.55	0.017	5.63	7.09	1.15	2.69	0.14	4.95	0.19	57.28	1.08	0.05	97.82	2.6	35	18	51	35	1	64	1
23145	55.00	58.00	3.00	15.51	0.047	2.99	9.72	1.92	3.8	0.12	2.84	0.17	58.62	1.05	1.37	98.15	1.4	17	81	8	46	1	52	3
23146	90.00	93.00	3.00	16	0.093	1.65	9.03	2.34	3.12	0.12	3.21	0.15	59.84	0.82	1.54	97.92	1.5	16	174	75	33	1	72	2
23148	105.77	108.77	3.00	8.08	0.051	0.16	8.92	2.4	2.68	0.08	0.19	0.13	72.94	0.41	2.75	98.78	0.7	40	90	8	34	1	57	8
23150	118.52	121.52	3.00	18.27	0.102	3.82	8.72	2	6.35	0.4	3.39	0.23	51.17	1.05	0.46	95.96	3	10	113	422	65	3	502	2
23152	131.00	134.00	3.00	17.5	0.052	4.33	10	1.41	6.01	0.15	3.51	0.22	51.63	1.06	0.32	96.19	2.9	1	169	36	54	1	75	1
23153	157.90	150.90	-7.00	15.13	0.055	0.92	9.74	2.66	5.32	0.1	2.08	0.17	56.63	0.95	3.85	97.6	1.4	19	98	10	59	1	71	9
23154	164.29	167.29	3.00	16.29	0.029	1.87	10.91	1.61	4.05	0.11	4.55	0.19	57.48	1	1.62	99.69	1.3	30	44	13	47	1	62	4
23155	178.08	181.08	3.00	15.96	0.02	1.91	9.85	1.84	6.97	0.3	2.52	0.2	53.7	1.09	2.78	97.12	1.9	1	32	10	74	2	210	1
23157	186.50	189.50	3.00	13.87	0.1	1.04	7.13	2.05	2.86	0.09	3.06	0.12	64.84	0.73	0.82	96.71	0.7	12	114	10	26	1	65	5
23158	214.75	215.25	0.50	14.05	0.012	4.97	8.4	0.35	6.4	0.24	3.32	0.2	51.45	0.78	1.95	92.13	1	2	22	7	47	2	101	5
23159	230.30	233.30	3.00	16.03	0.012	4.82	7.93	0.39	5.25	0.24	3.58	0.19	56	0.91	0.26	95.61	1.2	19	13	8	39	3	97	5
23160	242.67	245.67	3.00	15.62	0.027	4.29	8.53	1.18	8.97	0.29	1.19	0.19	49.55	0.89	0.78	91.49	1.1	1	24	7	50	5	130	5





FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					cp 203%, py 1-2%, sph tr - 1% vein of siliceous material 1-3% py often as medium grained cubes.	
51.25 TO 60.06	DAC FLOW?	-massive, some portions pseudo brecciated. -faintly feldspar phyric in some places -no fragments -homogeneous -abundant silica veinlets  50.44  «FLT»		wk - mod ser		.15 m core loss 23168 53.0 - 56.00
60.06 TO 65.25	AND LT	colour: lt. brown grain: f.g. m.g. -heterolithic -poorly sorted -felsic lithics -fragment rich -matrix - biotite dusting		nil	1-2% py	biotite haloe around 65-73 dike.
65.25 TO 73.40	MAFIC DYKE «MD»	colour: lt. green grain: f.g. m.g. -massive: carb filled amygdules -feldspar porphyritic -3-4 cm chill margin -large carbonate filled vugs at centre		nil	nil	hornfused wall rock.
73.40 TO 92.60	AND-DAC LT «AND LT»	-heterolithic -poor to moderate sorting -fragment rich 78.00 - 81.90 GMS; contains vitric frags -minor ash zones		73.40 - 78.0 matrix biotite altered (dike haloe)	tr 3% local bands and concentrations of coarse grain pyrite  81.90 - 82.50  20% pyrite «py» stringer/horizon med. gr. py and barite	23169 75 - 78.0
92.60 TO 96.00	AND XT -LT «AND XT»	colour: lt grey-green grain: fig. m.g. -fine ash and sharp ctc at cherty zone marks contact -numerous feldspar crystals 1-2mm and mafic fragments that are fsp. porphyritic dominate	70	weak to moderate epidote attacking feldspars	90.80 - 91.05 10-15% py fine grain and coarse grain.	possible horizon? minor gouge and broken core at upper contact. this unit may be a flow top breccia

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-heterolithic (some felsic lithics) ctc gradational				
96.00 TO 142.55	AND FLOW «AND FLOW»	colour: green grain: f.g to coarse grain. -massive to weakly foliated -feldspar phenocrysts up to 3-4mm form aggregates and occur as randomly oriented laths ↓107.75↓ «flt» -occasional large (5mm) possible amygdules silica filled, irregular shaped.	45	wk - moderate epidote/sausseritized wk - carbonate strong epidote patches locally	py 1% numerous pyrite and silica stringers usually oriented at 45 to the core axis ↓102.7 - 102.8↓ «py 10-15%» 105.46 - 105.50 py 5-7% 115.4 - 115.70 5% f.g py 126.60 tr cp	coarsly crystalline unit with pyrite stringers -blocky ground 99.0 - 102.0 BCD23170 DOME (?) could be dacitic 23171 120.0 - 123.0
142.55 TO 143.87	CHERTY ASH «ASH/CHT»	colour: white to light green grain: v.f.g. ctc sharp -massive, blocky with minor carbonate veinlets ctc sharp but regular	65		tr. sphalerite «tr sph»	important horizon
143.87 TO 147.20	MAFIC SILL FLOW «MD»	colour: dark green grain: f.g. and m.g. -massive with small <1mm flecks, possibly feldspar phenocrysts and aggregates -contains large up to 5mm amygdules -some zones amygdule rich.		moderate chlorite tr - 1% py		
147.20 TO 154.70	DAC-AND ASH/LT «AND ASH/LT»	colour: lt. green grain: f.g. -no foliation coarse ash unit with finer grain beds -beds one vague but appear to be 10cm thick 151.15 - 154.70 DAC LT in fault contact with above ashes -heterolithic with some chloritic possibly mafic clasts, but felsics dominate.	65	nil	2-3% m.g. py in veins and clots f.g. pyrite disseminated in ashes.	
154.70 TO 158.80	AND FLOW «AND FLOW»	colour: green grain: f.g. and m.g. -massive with small <1mm aggregates of feldspar ? -large 5mm elliptical amygdules locally		amygdule rims are epidote alt'd -med. chlor	3-5% -numerous coarse grain pyrite veins (narrow)	blocky ground 23172 155 - 158
158.80 TO 175.05	DAC-AND LT/ASH «AND LT»	colour: lt. grey grain: m.g. and f.g. -weak foliation -heterolithic -occasional larger mafic feldspar porphyritic		amygdule rims are epidote alt'd -med. chlor	3-5% -numerous coarse grain pyrite veins (narrow)	blocky ground 23172 155 - 158

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		fragments -some mafic fragments may represent vitrics. -minor ash beds 167.45 - 168.90 AND-DAC sill or flow- faintly feldspar phyric, very fine grain - possible block	65			
175.05 TO 178.96	MAFIC DIKE «MD»	colour: grey grain: f.g. m.g. -massive, hornblend porphyry -acicular needles of hble -in finer grain ground mass -good chill contact		fresh	nil	Garibaldi variety
178.96 TO 182.88	AND-DAC ASH «AND ASH»	colour: lt. grey f.g -ctc with dike sharp -a coarse ash with occasional lapilli -cherty ultra fine grain 10cm bed at lower ctc	48	wk. epidote	tr. py	
182.88 TO 198.12	AND TBX «AND TBx»	colour: lt. grey green cg f.g -no fabric developed -poorly sorted -heterolithic -felsic lithics and large feldspar phyric mafic fragments -fragment rich 185.0 - 185.3 ash  197.80 fault gouge and carbonate material		weak epidote	tr. py	may correlate with AND TBX/ASH in FC-17, 18 BCD 23173 188.0 - 191.0

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS		
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM			
23161	8.62	9.12	0.50								40	70	29	0.8	7	500				
23162	12.85	13.35	0.50	318	.02	.01	4.5	.11												
23164	22.77	23.27	0.50	.201	.02	.01	2.3	.14												
23165	26.03	26.53	0.50	.200	.01	.01	2.5	.10												
23167	49.70	50.30	0.60	.143	.01	.01	0.6	.17												

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23163	17.70	20.70	3.00	14.67	0.04	0.01	7.14	3.34	6.76	0.26	0.01	0.2	59.58	1.1	1.29	94.39	0.6	8	35	103	49	3	165	5
23166	36.30	39.30	3.00	10.19	0.048	0.01	6.65	2.16	3.61	0.15	0.01	0.01	71.26	0.45	1.54	96.06	1.7	22	61	754	39	1	163	5
23168	53.00	56.00	3.00	15.24	0.08	1.63	6.04	2.06	4.32	0.32	3.26	0.15	59.4	0.84	1.06	94.39	0.5	8	94	76	80	1	147	5
23169	75.00	78.00	3.00	14.53	0.127	1.25	5.3	2.7	3.96	0.14	2.48	0.04	62.76	0.65	0.74	94.69	0.9	11	433	23	38	1	129	5
23170	99.00	102.00	3.00	16.35	0.058	4.45	7.23	1.13	3.21	0.13	4.79	0.18	57.07	1.03	1.2	96.83	2.5	17	67	40	35	2	70	5
23171	120.00	123.00	3.00	16.32	0.043	4.31	7.47	1.17	3.22	0.21	3.39	0.18	58.51	1.02	0.53	96.36	2.3	13	62	91	34	1	88	5
23172	155.00	158.00	3.00	14.17	0.023	3.16	13.33	0.86	7.05	0.17	1.43	0.15	50.02	0.82	2.35	93.53	1.6	11	23	12	51	4	81	5
23173	188.00	191.00	3.00	17.17	0.019	5.52	8.87	0.49	4.6	0.18	3.17	0.18	54.04	0.95	0.03	95.22	1.8	18	27	8	33	1	74	5





FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.66	CASING					
3.66 TO 5.20	RUBBLE ZONE DAC LT «GMS»	-3.66 - 3.96 mafic dyke black, feldspar porphyritic, aphanitic matrix 3.96 - 5.18 Dac Lt 'GMS' white and green mottles etc faulted				ground blocks of 2-3cm core
5.20 TO 10.80	AND ASH/LT «AND ASH/LT»	colour: grey grain: f.g. and m.g. -moderately to well foliated at ashes are fine grained. Bedding in lapilli tuff is very well sorted with siliceous, lapilli dominating Felsic lapilli are often sub rounded -heterolithic, fragments commonly 1-2mm size -no mafic fragments gradational contact	55 70	weak ser	3-5% very fine grain disseminated py.	23176 7.0 - 10.0
10.80 TO 38.22	AND TBX/ASH «AND/TBX»	colour: green grain: f.g. and m.g. -large up to 10cm crystal rich, porphyritic andesite blocks occur within otherwise relatively well sorted lapilli tuffs and ashes. -block size fragment boundaries are often nebulous and only porphyritic nature distinguishes them from matrix.  20.0 - 26.0 numerous Quartz veins - vuggy 1-2 cm veins - tensional gash type - barren Individual bedding contacts are variable but approximately Contact sharp at	70 60	nil	nil	blocky ground from 20.0 - 26.0 23177 27 - 30.0
38.22 TO 43.50	DAC LT/ASH	colour: grey -well sorted LT with chloritic vitric frags. fines upward to an ash partially welded at base. 43.50 FLT		Nil	tr py, 41.82 tr cp	excellent fining sequence

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
43.50 TO 49.55	AND-DAC FLOW «AND FL»	colour: dark grey grain: f.g. -massive, faintly feldspar (?) physical -pseudo brecciated in place, locally, amygdaloidal ‡44.50 - 44.55‡ «FD» grandiorite dyke: numerous carbonate veinlets of various sizes				BCD 23178 45.0 - 48.0
49.55 TO 87.78	AND XT/LT ASH «AND XT»	colour: green grain: f.g. and m.g. -alternating beds of lapilli and ash tuffs, vertically graded in both directions -crystal tuffs could represent large fragments -heterolithic, moderate sorting, angular lithics -felsic, mafics 1:1 ‡57.60 - 57.20‡ «CHT» chert beds, minor pyrite laminae 64.75 - 64.85 Qtz vein barren	65	nil	2-3% py ‡60.55‡ «mgte» veinlet of magnetite plus pyrite. ‡72.05‡ «mgte» as above occasional sulphide fragment very fine diss. py often occurring within felsic lithics.	typical lithic rich fragmental with well bedded ash-intervals Ash beds commonly 10-20 cm and LT's 2-3 metres 23179 68 - 71.0 lacks pumice lapilli, perhaps floated off.
87.78 TO 91.20	AND FLOW «AND FL»	colour: green grain: f.g. -massive looking mafic phenocrysts and feldspar phenocrysts -amygdule rich zone chlorite filled amygdules «1mm and larger irregular to elliptical silica filled amygdules		carbonate veinlets	Anhydrite veinlets	possible sill
91.20 TO 103.95	AND ASH/XT «AND ASH»	colour: green grain: f.g. and m.g. -well bedded crystal to coarse ash to fine ash beds -occasional angular lapilli and tuff bed -overall ash dominates 100.45 FLT		wk mod. epidote	tr. - 1% py 94.55 - 94.70 10-15% py coarse grain - stringer ‡99.92 - 100.30‡ «tr cp» «1mm veinlet containing disseminations and clots of chalcopyrite	fining sequences uphole
103.95 TO 104.28	CHERT «CHT»	colour: lt.green grain: f.g. -homogenous, aphanitic cherty ash, bedding contacts with adjacent units disturbed.		nil	nil	possible important horizon Excellent rip-ups give convincing tops uphole
104.28 TO 149.80	AMYG. ANDESITE FLOW «AND FL»	colour: green grain: f.g. -feldspar porphyritic -feldspars form aggregates, strongly amygdaloidal -silica filled often up to 1cm size, but usually 5-6mm. Some have an hourglass shape		-weak to moderate epidote sausseritized feldspars 104.28 - 107.21 «mod. si» silicification at upper contact, chert appears to slump down into top of flow	tr py 125.42 - 125.50 pyrite band 3-5% py ‡127.05 - 127.40‡ «Qtz py» stringer py 7-10% py ‡130.50 - 130.75‡ «Qtz py»	lava emplaced at a shallow water depth 23180 104.50 - 107.50 23181 131 - 134.0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-oriented at high angle to c.a. 104.28 - 119.0 frequent tuffaceous screens possible flow top breccia ‡122.53‡ «FLT» amygdules decrease in abundance below about 138.0			stringer py 3-5% py ‡132.55 - 132.65‡ «Qtz py» 130.50 - 134.70 3-5% py ass. with siliceous material ‡145.70 - 145.80‡ «Qtz py» 10-15%	hole begins making water at 122.53 heavy flow 60 gal/min
149.80 TO 155.85	AND TBX/ASH «AND TBx»	colour: lt. green and dark green grain: f.g and m.g. -blocks of feldspar porphyritic material with a chloritized matrix occur within an ashy matrix 155.60 large felsic block gradational			1-2% py locally	23182 151.0 - 154.0
155.85 TO 192.63	AND LT/ASH «AND LT»  E.O.H.	-well sorted except for the occasional feldspar porphyritic mafic block well bedded, but variable angles 155.85 - 166.27 Ash dominates 166.27 - 1 lapilli tuff dominates fragment supported heterolithic mafics:felsics 1:1	70 85	weak epidote	tr - 1% py	vertically graded timing up hole in 1 metre sequences 23183 186.66 -189.66

HOLE NUMBER: FC-20

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL							COMMENTS		
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM		SB PPM	
	0.00	0.00	0.00																

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23176	7.00	10.00	3.00	16.31	0.051	1.52	7.24	1.96	4.2	0.21	3.57	0.21	58.35	1.13	1.12	95.88	1.5	8	61	18	40	1	104	5
23177	27.00	30.00	3.00	16.03	0.065	3.7	7.11	1.48	3.06	0.18	4.02	0.21	59.13	1.17	0.06	96.21	1.9	17	66	30	27	1	80	5
23178	45.00	48.00	3.00	18.34	0.065	4.49	8.9	1.57	4.93	0.11	4.13	0.26	51.03	1.14	0.03	95	2.4	17	90	17	37	2	84	10
23179	68.00	71.00	3.00	14.77	0.011	3.41	7.46	0.37	3.46	0.12	4.36	0.17	61.18	1.11	0.45	96.87	1.6	6	13	56	32	1	56	5
23180	104.50	107.50	3.00	16.05	0.055	4.81	7.2	1.66	3.01	0.24	2.83	0.15	58.71	1	0.56	96.27	2.1	17	65	77	28	1	86	5
23181	131.00	134.00	3.00	12.35	0.07	1.03	11.47	2.36	3.2	0.11	1.21	0.12	59.74	0.81	4.6	97.06	1.5	27	103	12	25	1	60	5
23182	151.00	154.00	3.00	15.05	0.031	2.51	7.86	1.08	4	0.11	3.49	0.16	60.64	0.98	0.59	96.5	1.4	13	41	9	30	1	52	5
23183	186.66	189.66	3.00	15.11	0.038	1.98	7.55	1.46	4.74	0.08	2.55	0.15	60.41	0.97	0.76	95.8	1.3	8	49	7	31	1	45	5



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.66	CASING					
3.66 TO 48.00	DAC (?) XT/LT «AND XT/LT»	colour: grey with purplish matrix grain: f.g. and m.g. -extremely massive, fabric destroyed by hornfels. -feldspar phyric, feldspar crystals are randomly oriented and usually 1mm in size -matrix supported -fsp xtls are in aggregates -crystals vary widely in concentration -occasional vague lapilli -high lithologic -accessory magnetite: therefore occurring as very fine grain disseminations. 20.70 † «FLT» mud gouge 34.14 - 34.80 † «FLT» along core axis 44.5 - 46.5 † «MD» fine grain brown		matrix has a faint purplish hue suggesting the rock has been hornfelsed or due to high magnetite content.	tr - 1% py	hard, blocky ground core loss frequent eg 10.0 - 12.80 took 5 runs core loss approximately 1.5m  some more massive feldspar porphyritic zones could be flows or dikes 23184 7.62 - 10.62 23185 37.19 - 40.19
48.00 TO 69.04	AND TBX/LT «AND TBX»	colour: grey grain: m.g. f.g. -ctc indistinct -fragments of overlying material concentrated at top of unit -heterolithic, fragment rich -felsic lithics dominate -very poorly sorted -angular to sub-rounded 56.25 FLT 61.30 FLT ctc lost		nil	tr - 1%  52.70 - 52.85 10-15% py	blocky ground persists numerous fractures with limonite straining  23186 62.87 - 65.87
69.04 TO 83.50	DAC XT/ASH «DAC XT/ASH»	colour: grey grain: f.g. and m.g. -massive -feldspar phyric zones matrix supported -crystal poor ashy sections		nil	py tr. 1%	blocky ground
83.50 TO 101.50	RHY ASH/LT «RHY ASH/L»	colour: white and lt. green grain: f.g. and m.g. gradational ctc -siliceous unit lapilli tuffs are strongly hornfelsed with fragments looking vague, felsic frags dominate			tr - 2% py limonite stained fracture planes	reminiscent of Maggie hanging wall rocks 23187 86.0 - 89.0 lt sampled



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> <li>-banded, grey and white possible remnant beds.</li> <li>-ashes are ultra fine grain, homogeneous and appear cherty due to hornfelsing</li> <li>83.5 - 87.33 ASH</li> <li>87.33 - 89.00 LT</li> <li>89.00 - 92.00 ASH</li> <li>92.00 - 94.90 LT</li> <li>94.90 - 101.50 ASH</li> </ul> <p>or massive flow</p> <ul style="list-style-type: none"> <li>-siliceous - possible flow banding at 98.0</li> <li>possible cordierite screens</li> </ul>			100.15 - 3-5% py vein 2cm	extremely blocky ground 23188 96.0 - 99.0
101.50 TO 102.00	SHEAR ZONE «SZ»	<ul style="list-style-type: none"> <li>colour: brown</li> <li>-mud and sand recovered - some pyritic fragments of above unit.</li> </ul>				
102.00 TO 119.20	RHY FLOW(?) «RHY FL»	<ul style="list-style-type: none"> <li>colour: grey</li> <li>grain: f.g.</li> <li>-massive</li> <li>-featureless except for numerous 1-2mm elliptical shapes</li> <li>-possible cordierites</li> <li>-cordierite rich zones followed by massive aphyric zones</li> </ul>		strong cordierite	tr - 1% py	fault with fibrous mineral growth run parallel to c.a at top of unit cream of wheat texture 23189 109.88 - 112.88 possible ash
119.20 TO 147.00	DAC ASHES «DAC ASH»	<ul style="list-style-type: none"> <li>colour: grey</li> <li>grain: f.g. to u.f.g.</li> <li>-homogeneous over 2-3m. intervals</li> <li>-massive, aphyric</li> <li>-weak, cordierite hornfels developed over some zones.</li> <li>1135.40 † «FLT»</li> <li>2-3 cm gouge, minor py.</li> </ul>	60	wk-mod cord. chlorite common on foliation planes	tr - 1% py	blocky in places 23190 127.40 - 130.40 no evidence to suggest flows, however moderate to strongly hornfelsed 23191 143.31 - 146.31
147.00 TO 163.30	AND-DAC LT + CHERTY ASH «DAC LT/ ASH»	<ul style="list-style-type: none"> <li>colour: grey</li> <li>grain: f.g. and m.g.</li> <li>- ctc gradational</li> <li>-lacks a foliation</li> <li>-mafic and felsic lithics</li> <li>-fragment rich, poorly sorted</li> <li>-fragments often have alteration rims suggesting they were in disequilibrium when deposited</li> <li>-large block size fragments account for 10% of the framework</li> <li>-includes block size feldspar porphyritic frags</li> </ul>		weak epidote	2-3% 148.65 py 3-5% as bands or possibly beds <2mm sulphide attack some felsic frags	23192 152.10 - 152.60 tr. sph?

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
163.30 TO 171.85	DAC ASH «DAC ASH»	colour: lt. grey grain: f.g. and u.f.g. -homogeneous, aphyric, massive to well bedded at 70 to the core axis -occasional cordierite screens or possibly remnant accretionary lapilli tuff beds ↓164.57 ↓ «FLT» 2cm gouge		nil	tr. pyy	23193 168.0 - 171.0
171.85 TO 180.40	RHY - DAC ASH/LT «DAC LT»	colour: light grey -coarse and fine lapilli tuffs both poor and well sorted appear to grade downhole into ultra-fine ashes -felsic (domal?) fragments dominate -usually subround -screens of accretionary lapilli tuff ↓180.80 ↓ «FLT» 2% py, 2cm gouge ↓182.58 ↓ «FLT» 1-3% py, minor gouge fault at low angle to core axis		nil	1-3% local veinlets  84.70 - 184.80 2-3% py as bx. matrix	fining sequences downhole LT-ASH-u.f. ash 23194 184.60 - 185.10 Barite? Rhy?
180.40 TO 198.70	DAC FLOW «DAC FLOW»	colour: grey grain: f.g. -massive -feldspar phyrlic -euhedral fsp. crystals randomly oriented ↓189.98 ↓ FLT ↓198.30 ↓ FLT		nil	1-2% py assoc'd with faults limonite on fracture planes	possible vesicular flow top at lower ctc 23195 190.12 - 193.12
198.70 TO 206.45	DAC LT/ASH «DAC ASH»	colour: grey grain: m.g. and f.g. -coarse ash beds show banding; includes large fragments of feldspar porphyry -lapilli: are vague and ash beds disrupted		nil	nil	this unit could be included with dacite feldspar porphyry
206.45 TO 207.30	MAFIC DIKE «MD»	colour: black grain: f.g. -massive -good chills		nil	nil	lamprophyre

HOLE NUMBER: FC-21

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 28-November-1989

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
207.30 TO 216.15	DAC XT/LT /ASH «DAC XT/ ASH»	colour: grey grain: f.g. m.g. -beds alternate between fine crystal tuffs, coarse ashes and fine lapilli tuffs -well sorted -fragments and vague -no grading developed	75		tr. 1% py 210 - 210.4 3-5% py and ba(?) vein 1cm 211.10 - 211.50 narrow - wcm rusty quartz veinlet running along core axis 215.25 - 2cm py band in fault gouge	GMS 207.30 - 208.71 23196 209.9 - 210.4
216.15 TO 220.07	AND FLOW «AND FL»  E.O.H.	colour: dark green grain: f.g. c.g. -coarse 3-4 mm feldspar laths in a fine grain mafic matrix -strongly magnetic -numerous carbonate veins		weak chlorite	tr. py	new unit. poss. dike? 23197 217 - 220

HOLE NUMBER: FC-21

DRILL HOLE RECORD

LOGGED BY: COLIN BURGE

PAGE: 5

HOLE NUMBER: FC-21

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL						COMMENTS			
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM		AS PPM	SB PPM	
23192	152.10	152.60	0.50							20	84	16	0.6	2					

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23184	7.62	10.62	3.00	15.34	0.025	4.49	8.87	0.26	2.78	0.26	4.05	0.12	60.35	1.02	0.01	97.57	1.4	8	41	24	26	1	71	5
23185	37.19	40.19	3.00	16.95	0.023	4.05	8.55	0.24	3.91	0.28	3.69	0.17	57.61	1.07	0.12	96.65	1.6	14	51	134	30	1	94	5
23186	62.87	65.87	3.00	15.25	0.023	1.08	6.86	0.76	4.23	0.15	3.77	0.15	61.74	0.96	0.23	95.22	1.6	1	30	14	919	1	1257	5
23187	86.00	89.00	3.00	15.67	0.035	0.45	3.42	1.21	2.86	0.09	4.93	0.09	67.97	0.28	0.34	97.35	1.1	1	46	18	103	3	781	10
23188	96.00	99.00	3.00	14.08	0.06	0.21	3.36	2.17	2.95	0.06	2.22	0.09	71.92	0.29	0.12	97.52	0.5	4	71	12	65	2	93	5
23189	109.88	112.88	3.00	14.94	0.043	0.46	2.68	1.17	1.92	0.05	5.19	0.07	70.49	0.19	0.36	97.58	0.4	9	62	9	18	2	57	5
23190	127.41	130.41	3.00	14.4	0.059	0.92	5.79	2.19	2.43	0.07	2.13	0.11	67.49	0.34	1.57	97.5	0.3	4	76	113	27	1	63	5
23191	143.31	146.31	3.00	13.89	0.05	0.61	4.09	1.58	2.42	0.07	3.37	0.09	70.16	0.37	0.65	97.36	0.3	1	68	8	21	2	36	10
23193	168.00	171.00	3.00	14.14	0.042	0.61	3.2	1.5	2.78	0.08	3.8	0.1	70.4	0.33	0.42	97.4	0.6	1	57	6	28	1	44	5
23194	184.60	185.10	0.50	13.25	0.057	0.27	6.51	2.04	3.14	0.07	2.25	0.12	66.33	0.35	2.86	97.26	0.3	1	101	16	29	1	56	5
23195	190.12	193.12	3.00	14.13	0.061	0.78	4.85	1.65	2.26	0.06	3.36	0.1	68.5	0.36	1.6	97.71	0.5	3	104	7	19	1	37	5
23196	209.90	210.40	0.50	14.5	0.075	0.65	9.31	2.86	3.59	0.07	0.9	0.15	61.07	0.45	6.1	99.73	0.4	1	126	14	27	1	59	10
23197	217.00	220.00	3.00	16.83	0.017	4.58	7.56	0.28	5.41	0.14	2.92	0.24	55.94	0.99	0.22	95.13	1.6	1	48	11	71	2	197	5



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.05	CASING					
3.05 TO 22.10	AND XT/LT/ASH «AND XT»	colour: green grain: f.g. and m.g. -zones rich in euhedral feldspars 1-2mm size -representing crystal tuff beds or possible large crystal rich blocks -coarse ash bed gives good contact at -purplish matrix contains fine grain magnetite 14.65 - 16.80 † «MD» -mafic dike, feldspar and hornblende porphyritic good chill margins -feldspars are dominating feature and seem to occur in a random orientation and cluster at random intervals	90	nil	tr py	possibly a TBX, iron rich  23198 11.33 - 14.33
22.10 TO 119.48	AND LT/ASH «AND LT»	colour: green grain: f.g. m.g. - gradational ctc to a coarse ash -lapilli tuffs are heterolithic, usually poorly sorted but screens of well sorted LT occur -fragment rich to a fragment supported -matrix has a high magnetite content -felsic lithics sub-angular to sub rounded -occasional large feldspar phyric fragments within ashy units -ashes are coarse and generally 1-3 m thick -lacks any deformation -feldspar phyric zones, feldspars euhedral 73.58 possible bedding at -82.0 - 93.8 purplish hue to rock felsic frags often have a purple appearance - hematite/magnetite content very high in matrix	75	nil  93.80 - 119.48 † «st.epi» epidote alteration begins rather sharply and attacks felsic lithics and phenocrysts	tr 1% py usually as c.g. aggregates  33.3 - 35.2 tr cp, disseminated associated with narrow, epidote carbonate veinlets all four cutting core at 45 45.12 py and mgte in band  46.60 - 47.80 mgte veinlets 1-2mm 63.45 - 63.52 † «tr cp» 6x2 cm irregular clot of magnetite with pyrite or border trace chalcopyrite at core of magnetite 1-2% mgte in 1-2mm veinlets and diss. matrix 111.50 - 111.80 2mm veinlet of qtz runs along core axis - 5-10% mgte	23199 tr cp 34.7 - 35.2  magnetite - bearing  23200 53.94 - 56.94 23201 76.81 - 79.81 67.95 crudely fining uphole 23202 98.15 - 101.15 23203 Geochem Trace only 111.50 - 112.0
119.48 TO 134.72	AND FLOW «BAS FLOW»	colour: green grain: f.g. and m.g. -feldspar phyric -irregular elliptical shapes - possible -flow top has numerous chlorite filled amygdules -feldspar crystal rich zones -minor magnetite		«st. epi»	nil	23204 127.10 - 130.10 could be a series of blocks, flow breccia.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
134.72 TO 203.00	AND TBX/LT «AND TBX»	<p>colour: green to grey grain: f.g. to m.g. -heterolithic, fragment rich -poorly sorted -feldspar phyric andesite flow frags often as black -felsic lapilli stone, sub rounded to well rounded better sorted, 5-8mm in size -felsics have purplish hue, probable dome frags -finer grain crystal rich beds, ash units</p> <p>137.50 - 141.20 mafic lapilli tuff on flow (basalt)? -large 10cm block of this unit below at 141.6 perhaps both are blocks. 149.65 chert bed 5cm at 150.2 3cm milky qtz vein barren 183.35 - 185.0 possible large block or crystal tuff. below 192.05 proportion of subrounded felsic lithics reduced to &lt;5%.</p>	60	<p>nil</p> <p>137.5 - 137.70 mod chlorite</p>	<p>137.50 - 137.77 3-5% py diss. and in veinlets</p> <p>163.35 - 163.37 «cp» chalcopyrite veinlet 1 cm wide</p>	<p>BLT</p> <p>23205 153.0 - 156.0 23206 177.39 - 180.39</p>
203.00 TO 222.20	AND FLOW «AND FL»	<p>-XT-LT or FLOW bx -Euhedral feldspar crystals dominate rock -coarse crystals up to 4mm on long axis -occasional mafic fragment - block size 216.92 - 218.70 «MD» mafic dike, good chill contact lower ctc gradational</p>		nil	nil	<p>coarse feldspar phyric unit</p> <p>23207 212.45 - 215.45</p>
222.20 TO 253.20	AND LT «AND LT»	<p>colour: green grain: f.g. and c.g. -coarse ash and crystal matrix with lapilli - size fragments of overlying coarsly feldspar phyric unit -matrix supported zones alternate with fragment supported zones -lapilli lack distinct boundaries, but can be recognized by high feldspar crystal concentration</p>		<p>227.0 - 228.7 weak biotite - cordierite hornfels</p> <p>247.9 - 252.20 «biot-cord» moderate to strong biotite-cordierite hornfels -cordierites less than 2mm in size and abundant</p>	<p>1-3% py 226.16 - 253.12 coarse grain aggregates and cubes of py</p> <p>227.69 «sph» 227.68 - 227.69 1 cm band of sphalerite with traces of chalcopyrite at 40 to the core axis.</p>	<p>-some block size fragments</p> <p>23208 traces 227.50 - 228.0 23209 232.26 - 235.26 23210 249.07 - 252.07</p>



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
253.20 TO 259.85	DAC LT «AND LT»	colour: light purple and grey grain: f.g. and m.g.  - 253.40   «FLT» -mafic and purplish felsic lithics in fine grain felsic matrix 255.40 - 256.20 and flow - block or sill		weak cordierite	3-5% py f.g. disseminated	23211 256.69 - 259.69
259.85 TO 279.50	AND FLOW AND FLOWBX «AND FLBX»  E.O.H.	colour: green grain: f.g. -amygdules common in upper 6 meters -feldspar vague in upper part -remainder is coarsely feldspar porphyritic -feldspar occur as 3-4mm euhedral laths clustering of crystals identifies individual fragments as different fragments have varying densities of crystals		nil	259.85 - 265.5 py 1-2% as 3-4mm aggregates and cubes	flow breccia coarsely feldspar phyric 23212 276.50 - 279.50

HOLE NUMBER: FC-22

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL						COMMENTS			
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM		AS PPM	SB PPM	
23203	111.50	112.00	0.50																
23208	227.50	228.00	0.50																

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SI02 %	TIO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23198	11.33	14.33	3.00	15.43	0.013	2.16	7.68	0.69	3.35	0.11	4.78	0.17	61.53	0.97	0.01	96.89	1.5	1	11	16	85	1	268	5
23199	34.70	35.20	0.50	14.46	0.033	3.47	5.99	2.34	3.33	0.11	3.66	0.17	60.98	0.94	0.01	95.5	2.3	1	14	389	53	2	124	10
23200	53.94	56.94	3.00	14.35	0.006	2.58	6.99	0.24	2.95	0.11	4.61	0.18	64.64	0.93	0.01	97.6	0.9	1	8	11	35	1	101	5
23201	76.81	79.81	3.00	17.1	0.005	3.88	9.01	0.21	4.39	0.15	4.5	0.22	55.65	1.02	0.04	96.18	1.1	1	5	10	36	1	69	5
23202	98.15	101.15	3.00	16.99	0.005	6.28	9.87	0.15	4.89	0.16	3.65	0.28	54.78	1.16	0.01	98.24	1.6	1	3	21	39	1	72	5
23204	127.10	130.10	3.00	19.56	0.01	5.38	9.32	0.28	6.09	0.2	4.7	0.27	49.22	1.03	0.01	96.08	2	1	44	10	36	1	83	10
23205	153.01	150.01	-3.00	15.03	0.009	2.21	7.84	0.27	4.23	0.13	4.51	0.17	61.24	0.92	0.28	96.84	1	1	13	14	32	1	79	5
23206	177.39	180.39	3.00	17.06	0.016	2.8	7.35	0.65	3.91	0.17	4.76	0.18	58.85	0.96	0.01	96.72	1.4	1	14	8	38	2	74	5
23207	212.45	215.45	3.00	16.14	0.007	4.66	7.62	0.24	3.63	0.17	4.27	0.2	58.97	0.86	0.03	96.81	1.3	1	8	9	25	1	73	5
23209	232.26	235.26	3.00	16.82	0.015	4.39	9.3	0.43	4.75	0.21	3.49	0.18	54.27	0.98	0.48	95.31	2.6	18	14	831	47	11	80	5
23210	249.07	252.07	3.00	15.41	0.015	0.76	9.61	0.98	7.64	0.2	2.93	0.16	54.07	0.85	3.5	96.12	1.1	1	30	28	60	6	129	5
23211	256.69	259.69	3.00	16.28	0.03	1.09	7.67	1.2	6.32	0.21	3.31	0.15	57.13	1.04	1.64	96.08	0.9	1	49	10	56	3	127	5
23212	276.50	279.50	3.00	16.93	0.015	3.74	8.19	0.22	4.56	0.21	4.26	0.17	57.16	0.91	0.13	96.49	0.6	1	12	12	43	2	88	5





FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		29.85-32.0 -LT bed at 15 deg to c.a. -note massive pyrite at contact -1 x 2 cm occurrence at upper contact				32.0-36.26 -sulphide muds
		35.0-35.66 -bedding running along core axis				
		41.20 -FLT				
		45.55 «FLT» -4-5 cm gouge				
		46.0-46.50 -bedding runs along core axis			45.82 -MS fragment, 1x5 cm, py-very fine grain	
		43.51-45.55 -Flow/dike or sill? -strojng sericite peculiar green with amygdules			46.60-46.61 «cp» -within 1 cm band 10-15% cp, 5% py band parallel to foliation at 50 deg	
		51.70 -FLT				below 50.0: overall sulphide content appears to diminish
		51.70-52.43 -LT containing vitrics				
		57.0-58.0 -bedding running along core axis with "m" folds				
		60.50 -FLT -minor gouge				60.50-61.50 sulphide mud
		61.50-68.65 -DAC flow? -more massive green contains quartz veins -possible horizon at base lost in fault			61.0-61.60 -10-15% py -m.g. py parallel to foliation while very fine grain pyrite bedded	61.0-61.5 BCD 23216 traces only
		68.65-74.42 -ASH -massive, khaki green colour homogeneous		-strong ser.	68.60-68.65 -qtz py stringer	63.86-66.86 -tr cp, 1-3% py BCD 23217

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>71.25-71.65 † «FLT» 74.42 † «FLT»</p> <p>74.42-76.50 -DAC FLOW block and LT</p> <p>76.50-82.65 ASH\ -medium to fine grain</p> <p>82.65-84.15 DAC LT -felsic lapilli in f.g. cloudy matrix</p> <p>87.0-89.54 DAC LT with vitrics</p> <p>96.12-97.65 -DAC FLOW(?) or flow block</p> <p>97.65-98.30 -Dac LT with vitrics</p> <p>98.30-98.77 -siliceous, pyritic, Exhalite(?)</p> <p>98.77-101.0 -DAC LT contains vitric fragments -moderate to strong deformation</p> <p>101.0-104.45 -Ash massive very fine grain</p> <p>104.45-109.75 -muddy ash with fine pyrie laminae running parallel to core axis -beds offset by minor faults</p>			<p>84.0-87.0 -sulphide muds bedding running along core axis</p> <p>84.15-87.15 BCD 23218</p> <p>84.0-87.0 -sulphide muds bedding running along core axis</p> <p>84.15-87.15 BCD 23218</p> <p>98.3-98.77 † «EXH» -10-15% py, 1-2% cpy</p> <p>104.45-109.75 † «py laminae» -py 1-2%</p>	<p>84.0-87.0 -sulphide muds bedding running along core axis</p> <p>84.15-87.15 BCD 23218</p> <p>89.54-96.12 -sulphide muds bedding at 25 deg to c.a.</p> <p>93.0 "S" fold</p> <p>98.27-98.77 BCD 23219 Assay 1% Cu</p> <p>103-108 sulphides</p> <p>105.0-108 BCD 23220</p> <p>105-108 -bedding parallel to core axis</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		109.71-125.12 -massive ash and LT minor vitric rich section -tectonically brecciated		-siliceous		
		114.75-115.2 -FLT 10 deg to c.a.				
		117.81 -FLT -1 cm gouge				
		↓119.57-119.70↓ «FLT»			-5-7% py, tr sph(?)	119.25-120.25 BCD 23221 traces only fault gouge
		120.02 -FLT -2 cm gouge				
		119.70-120.02 -tectonic breccia				121.5-124.5 BCD 23222
		120.02-120.18 -strongly folded and contorted carbonate altered material				
		120.18-128.4 -ash, homogeneous				
		↓128.4-129.62↓ «FLT Bx» -fault breccia carbonate cement -same zone as 119.57?			123.80-124.56 -sulphide jelly beans, 2-3 mm size and clots	
		129.62-134.20 -muddy ash -tr-2% py				
		↓134.20-136.40↓ «MD» -mafic dike -hornblends phyric				
		↓137.75-138.27↓ «MD» -feldspar phyric mafic dike				
		125.12-148.10 -Dac LT and ash felsic lapilli vague and well rounded silicified and brecciated due to the fault				



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS	
		140.40 -FLT  140.65 -FLT  †142.0-143.9† «FLT/FLT Bx» -vuggy, barren quartz carbonate veins occur within the fault shattered and brecciated wallrock  148.10-167.05 -Ash -massive homogeneous, army green colour -hematite chert (jasper) fragments and bed(?) -1-2 mm wide associated with pyrite running at 10 deg to the core axis between pyrite  †154.80-155.0† «FLT»  -thin bedded ashes cherty ashes give bedding angles at 163.95 at 65 deg -Jasper fragment  contact at 75 deg to c.a.					
				-mod to str ser	-py 3-5%, tr cp  †153.85† «JAS/Py»  154.6-154.8 -quartz stringer 3-5% pyrite  -3-5% py	151.23-154.23 BCD 23223 Jasper bearing zone  159.0-159.1 BCD 23224 trace only -Zn?, Jasper zone	
167.05 TO 174.96	RHY ASH «RHY»	Colour: white to transparent Grain Size: v.f. grained -massive felsic ash or flow -homogeneous to faintly fsp phyrlic		«i ser»			
	E.O.H.	169.76 -FLT		-str. intense ser	-tr -1% py locally	167.25-170.25 BCD 23225  could be unit seen at 80 m in FC-16  hole finished in strongly altered rock	



HOLE NUMBER: FC-23

ASSAY SHEET

DATE: 28-November-1989

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS	
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM		
23213	18.82	19.32	0.50	.264	.01	.01	3.6	.05											
23216	61.00	61.50	0.50							142	125	41	1.6	4	840				
23219	98.27	98.77	0.50	.463	.01	.01	4.2	.03											
23221	119.25	128.25	9.00							30	137	25	1.2	7					
23224	159.00	159.10	0.10							12	140	20	1.1	1					

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23214	15.80	18.80	3.00	16.01	0.065	0.55	9.94	2.63	8.55	0.33	0.6	0.17	51.99	0.98	3.75	95.57	0.3	1	56	109	61	5	216	10
23215	38.20	41.20	3.00	15.52	0.095	0.49	7.1	2.45	7.39	0.27	1.13	0.14	58.6	0.74	1.83	95.76	0.8	1	86	101	73	3	200	5
23217	63.86	66.86	3.00	15.69	0.045	1.44	8.08	2.21	7.17	0.29	1.85	0.16	54.22	1.05	2.74	94.94	0.5	1	41	131	58	4	437	5
23218	84.15	87.15	3.00	14.59	0.07	0.71	5.83	2.33	6.33	0.22	1.68	0.13	61.53	0.65	2.69	96.76	0.4	1	101	38	58	3	237	5
23220	105.00	108.00	3.00	13.76	0.05	0.3	4.35	2.76	4.93	0.2	0.96	0.1	67.48	0.54	0.56	95.98	0.6	1	46	102	40	2	120	5
23222	121.50	124.50	3.00	15.62	0.03	0.58	6.57	1.74	7.3	0.28	2.12	0.14	59.31	0.81	1.29	95.79	0.5	1	54	14	56	3	219	5
23223	151.23	154.23	3.00	16.04	0.03	1.12	7.85	1.98	7.37	0.26	1.77	0.16	55.8	0.85	1.4	94.63	0.5	1	30	24	63	7	150	10
23225	167.25	170.25	3.00	12.17	0.045	0.47	2.21	3.12	3.16	0.09	0.36	0.07	74.27	0.17	0.71	96.84	0.2	8	51	2	26	1	43	5

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	CASING					
6.10 TO 6.25	«ARG»	colour: black grain: f.g. -thin bedded to laminated at 25 deg to the core axis beds appear to be offset by low angle faults ctc lost		nil	nil	
6.25 TO 33.70	«AND LT»	colour: light green to dark green grain: f.g. to m.g. -weak to moderate foliation -heterolithic overall but numerous felsic lapilli stone rich felsics are well rounded and well sorted. -fine grain andesitic matrix showing various stages of epidote alteration -framework varies mafic lapilli rich sections. 14.75 - 14.92 mafic flow or sill 17.10 - 18.31 «md» mafic flow or sill  -becomes very coarse at base, possibly a block and ash unit - difficult to interpret due to patchy alteration -felsic lithics crudely fine uphole (speculative) contact irregular and interrupted by quartz vien.	45	«stg.epi/carb» strong to intense epidote alteration of the matrix carbonate alteration most intense where epidote strongest	«tr cp» 9.0 - 9.25 tr - 1% cp tr mgte 12.30 - 12.88 tr - 1% cp 1-2% mgte tr. py/ po  20.62 - 20.85 py 3.5%, mgte 1-2%	23226 8.92 - 9.42 23227 traces only 12.22 - 13.22  unit probably correlates with spectacular bomb sag outcrop L290W, 300S 23228 26.0 - 29.0 potpourri of textures
33.70 TO 43.15	«DAC XT/LT»	colour: lt. green to grey -ultra fine upper contact -consists of crystal tuff (feldspar phyric) to block size frags in a fine grain andesitic matrix -lower part of the unit is well foliated at 45 deg dacite 'GMS' unit. -minor quartz phyric screen.		mod. epidote/carbonate (sausseratization) preferentially attack felsic fragments forming framework.	1-2% py	transitional phase includes some 'GMS'  23229 36.0 - 39.0
43.15 TO 100.80	DAC ASH/LT «AND ASH/LT»	colour: lt. yellow green grain: f.g. -44.90 - 45.80 block of overlying DAC LT 'GMS' -fine grain to very fine grain massive to thin bedded ashes -some zones have the appearance of dacite flow extremely massive -fining and rip-ups of accretionary lapilli tuff beds appear to fine uphole	70	mod. - str. sericite - mod. carb.	2-3% pyrite  tr po in veinlets pyrite is evenly distributed as fine grain disseminations.	ash to lapilli fining sequences top uphole however beds may be transposed 23230 55.2 - 58.2

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> <li>-lapilli tuffs are well sorted and strongly foliated at fragments stretched 20:1 - contains &lt;5% vitrics heterolithic</li> <li>-felsic flow blocks at base?</li> <li>‡89.61 - 93.70‡ «ARG»</li> <li>argillaceous or muddy ash 10cm quartz vein at base</li> <li>97.65 - 98.2 gash type 1cm qtz. veins</li> <li>strong epi/carb tr. py.</li> </ul>	50			<ul style="list-style-type: none"> <li>no sulphide fragments</li> <li>23231</li> <li>73.00 - 73.50</li> <li>23232</li> <li>78.0 - 81.0</li> <li>23233</li> <li>97.65 - 98.15</li> </ul>
100.80 TO 122.80	«DAC XT/LT»	<ul style="list-style-type: none"> <li>colour: tan and green</li> <li>-contact lost in bleached zone</li> <li>-feldspar phyrlic ash flow unit</li> <li>wk to mod foliation at 60 deg to core axis</li> <li>-crystals 1mm size</li> <li>-lapilli vary up to blocks vague in places</li> <li>-occasional vague vitrics</li> <li>-107.2 - 113.7</li> <li>gash type barren</li> <li>quartz/carbonate</li> <li>veins cut core axis at low angle generally 5-6mm width - cut foliation</li> <li>central to this zone:</li> <li>‡110.26 - 110.76‡ «QTZ BX.»</li> <li>quartz-carbonate vein and breccia zone appears to cut core axis at about</li> <li>-in part vuggy and banded with translucent sugary quartz and milky white carbonate</li> </ul>	45	wk - mod epi fragments lithics and crystals attacked by epidote	5-7% m.g. and f.g. silver grey pyrite	<ul style="list-style-type: none"> <li>23235</li> <li>115.52 - 118.52</li> <li>Good candidate for surface Au-rich quartz vein. This intercept would be 150m west and 80m down dip from surface occurrence.</li> <li>23234</li> <li>110.26 - 110.76</li> </ul>
122.80 TO 129.72	«DAC ASH»	<ul style="list-style-type: none"> <li>colour: olive green</li> <li>grain: f.g.</li> <li>-ctc broken</li> <li>-fine homogenous ashes interbedded with fine crystal tuffs</li> <li>-argillaceous component to lower part of unit</li> <li>-also possible crystal rich blocks</li> <li>-below 129.0 becomes highly strained, fabric orientation varies from 65 to 90 degrees</li> <li>ctc gradational</li> </ul>		weak ser	tr po	grading again indicates tops up hole possible transposed bedding

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
129.72 TO 136.95	DAC LT "GMS" «GMS»	colour: green mottled -heterolithic -partially welded -abundant fragments derived from the dome complex flow banded -fragment rich -fiamme abundant		nil	nil	hyaloclastite near top
136.95 TO 139.45	AND-DAC LT «DAC LT»	colour: green grain: f.g. and m.g. -matrix supported -some felsic <1mm size up to 5mm size -no vitrics		wk epidote	nil	
139.45 TO 187.00	«DAC XT-LT»	colour: green mottled -heterolithic -wk - moderate foliation -contains numerous coarsely feldspar phyric mafic fragments -contains fiamme also and flour fragments up to block size -abundant quartz knots and veins 1-2cm, qtz veins barren and milky white 150.73 - 152.45 felsic dike or block 150.73 - 151.65 «ID» 157.98 - 158.58 «ID» foliated mafic to intermediate amygdaloidal, altered, possible flows. 160.63 - 163.68 strong deformation at 80 deg but could be attributed to welding/compaction 160.5 - 163.5 pumice fragments dominate lithic fragments dominate below 172.0 presumably derived from underlying flow. 183.70 - 187.0 very fine grain ashey (surge?) material united with strongly welded fiammes and hyaloclastite - felsic material spotted by flow.		wk - moderate epidote attacking feldspar phenocrysts moderate silica	nil	The green and white from creek?  classic ash flow deposit  Quartz independent of foliation and barren Quartz veins associated with zone of moderate to strongly foliated rock could represent ductile shear. 155.60 - 156.0  23236 137.45 - 142.45 23237 169.77 - 172.77  crudely grading from lithics to pumice frags.
187.00 TO 191.20	«DAC FLBX» FLOW BRECCIA	colour: green grain: very fine grain individual fragments have an aphanitic matrix and are matrix supported with occasional feldspar. -massive -fragments not well defined - possibly a pseudobreccia		nil	nil	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
191.20 TO 213.55	DAC XT-LT «GMS»	colour: mottled green grain: f.g. and c.g. -feldspar phyric with felsic lithics abundant -numerous collapsed pumice fragments 195.10 - 195.80 fine ash, possible surge streaky looking 197.05 - 197.68 ashy material incorporated into flow  210.15 - 291.26   208.60 - 209.77  «AND FLOW» possible block from underlying flow 210.0 - 211.0 quartz - carbonate vein - barren, at base of flow 211.26 - 213.55 appears strongly deformed.		nil  -mod - strong sericite at lower contact	nil   213.40 - 213.42  «py horizon» 1 cm band of very fine grain pyrite	205.40 spectacular ballistically emplaced felsic lithic  possible horizon at base 23238 198.4 - 201.4
213.55 TO 224.52	«AND XT»	colour: green grain: f.g. and m.g. -faint feldspar crystals less than 1mm in granular mafic matrix -epidote attacks feldspar and feldspar aggregates -numerous quartz and carbonate veinlets 213.55 - 215.07 fine grain possibly amygdaloidal		wk - mod epidote wk - moderate carbonate	nil	possible flow or sill 23242 220.98 - 223.98
224.52 TO 230.90	«DAC TBX»	- 'GMS' type lapilli tuff interrupted by large block of andesite (above unit) contact sharp	60	mod. chlorite weak epidote attacking mafic blocks	nil	transitional phase
230.90 TO 233.90	DAC LT«GMS»	colour: mottled green grain: f.g. and m.g. -contains pumice frags and lithics. fragments become strongly attenuated toward base of unit.				
233.90 TO 237.85	«DAC ASH/ XT»	-strong to intensely foliated ash and quartz phyric crystal tuffs 234.13 - 234.81: massive intermediate dike? or flow?		«str. ser» strong sericite	«3-5% py» locally 10-12% very fine grain py tr.cp	23239 234.81 - 235.81
237.85 TO 240.45	MAFIC DYKE «MD»	colour: grey green grain: f.g. and m.g. -aphanitic matrix -feldspar phyric -good chill margins				



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
240.45 TO 240.95	«DAC LT»	colour: green grain: m.g. -felsic lithics and feldspar crystals				
240.95 TO 260.53	DAC FLOW/ FLOW BX «DAC FL»	colour: lt to olive green grain: m.g. -massive flow fragments with minor ash and lapilli tuff beds framework supported poorly sorted. ‡250.60 ‡ Fault «FLT» bleached zones on either side of a sulphide healed tectonic breccia ‡249.60 - 249.75 ‡ «FLT BX»		‡246.12 - 249.40 ‡ «ser» ‡251.10 - 252.60 ‡ «i. ser» bleached zones with intense sericite alteration of matrix where present	2-3% py 1-2cm occasional bands at 45 (framework) Bleached zones contain very fine steel grey pyrite. 249.60 - 249.75 30-40% very fine grain pyrite 258.35 - 258.42 qtz - py stgr.	23240 246.12 - 247.12 23241 247.12 - 248.12 23243 249.50 - 250.50
260.53 TO 269.02	MAFIC DYKE «MD»	colour: grey to black grain: f.g. and m.g. -feldspar and hornblende porphyritic aphanitic matrix				
269.02 TO 282.72	DAC FLOW «DAC FL»	-blocks of massive dacite with occasional screens of fine ash material. ‡269.50 - 269.85 ‡ «md» ‡270.15 ‡ «FLT» bull quartz up to 5cm thick occur frequently in unit. 279.4 - 283.0 Quartz veins common every 10cm possible shear zone.		«mod ser»	«tr sph, cp» 271.45 - 271.52 cp 1-2%, sph tr - 1% siliceous stringer or exhalite 277.60 - 277.70 siliceous stringer cp tr - 1% tr sph. 278.29 - 278.45 py 5-7% medium associated hematite alteration	23244 traces 271.35 - 271.85 possible horizon 23245 274.85 - 277.85 possible horizon
282.72 TO 287.03	DAC ASH «AND ASH»	colour: peculiar green grain: f.g. and m.g. -strong to intensely foliated at 55 possible ash unit -occasional kinks in foliation -fragments are stretched out 100:1 ‡284.30 ‡ «FLT» 7cm gouge		«str. ser» strong sericite alteration	«5-7% py» 5-7% fine grain and m.g. pyrite	pyrite ash not unlike Watershed horizon ashes 23247 284.00 - 287.00
287.03 TO 312.50	DAC FLOW «DAC FL»	colour: olive green grain: f.g. -very massive by comparison -pseudo brecciated with fine grain pyrite veinlets -excellent flow banding -composed of 2 or 3 individual flow units		well preserved patchy chlorite	py 1-2% tr cp, sph	spectacular flow flow and accretionary lapilli tuff unit 23248 302 - 305

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		separated by pisolitic or accretionary lapilli tuff beds at 65 to core axis -accretionary lapilli give uphole tops (thicker bottoms) -also vitrics accumulate at tops of beds (pumice lapilli) 306.93 - 309.68 Quartz - carbonate veins up to 10 cm wide				
312.50 TO 313.58	DAC LT "GMS" «GMS»	colour: mottled green grain: m.g. -mod - strongly foliated at 65 to core axis -vitric rich -fragment supported -felsic lapilli and occasional lithic fragment -numerous (5% - 10%) sulphide rich lapilli		wk - mod chlor/ser	2-3% py	
313.58 TO 317.66	MUD/ASH «MUD ASH»	colour: brown to dark green grain: f.g. to u.f.g. -moderate to strongly foliated muddy ashes -upper 1 metre are sulphide muds -occasional chert disseminations or beds slumping down fractures -otherwise homogeneous aphyric		mod-ser chlorite patchy «i ser»	5-7% py in fine grain up to 2mm bands and finely disseminated	muddy component to ashes sulphide mud tops uphole from slumping chert beds 23249 315.02 - 316.02
317.66 TO 317.75	«SULPH EXH» SULPHIDE EXHALITE HORIZON	colour: brassy yellow grain: f.g. to c.g. -ctc sharp -80% sulphides 20% silica chalcopryrite concentrated on uphole contact which is abrupt -silica and possibly anhydrite occur on the down-hole side	85		«50% cp» 50% cp 30% py cp is fine grain py is m.g. and f.g forming aggregates	JOY 23250 3% Cu ASSAY 317.52 - 318.02
317.75 TO 334.70	«RHY» ASH/LT	colour: white grain: v.f.g. -homogeneous aphyric siliceous, vague possible amygdules in some zones. -vitric rich zones and accretionary lapilli rich zones 324.8 - 325.5 Quartz veins...barren 328.93 - Fault 1cm gouge 331.05 Fault 2cm gouge		«i ser» intense sericite	tr py v.f.g. diss.	possible ash 23251 319.52 - 322.52 intensely altered

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
334.70 TO 335.70	«QTZ» QUARTZ VEIN	colour: white grain: v.f.g. -quartz vein and gouge material			tr py	
335.70 TO 340.22	DAC FLOW «DAC FL»	colour: light green grain: med. gr.  -massive, aphyric -minor pseudo-breccia				23252 336.0 - 339.0
340.22 TO 365.20	DAC ASH «RHY»	colour: army green grain: ultra fine grain -homogeneous -aphyric -cherty rip-up at top of unit indicate top uphole -bedding at approximately 80 -contains siliceous zones, appear cherty -below 350.52 contains dome fragments and accretionary lapilli tuff beds ‡348.10 - 348.84‡ «AND» -mafic flow on dyke amygdules within central portion. 362.5 - 362.80 Quartz vein barren		mod ser    362.87 «py stgr» 2cm band of coarse grain pyrite	3-5% py local veinlets containing 10-15% py ‡351.55 - 351.75‡ «py stgr» 7-10% py ‡353.45 - 353.65‡ «py stgr» 7-10% py  ‡346.93‡ «cp stgr» 3cm siliceous zone with 7-10% cp 1-2% py 356.3 - 359.30	232553 356.3 - 359.3
365.20 TO 370.94	DAC FLOW  E.O.H.	colour: green -ctc sheared -masive aphyric weak pseudo-breccia -faint irregular possible amygdule		nil	nil	23254  367.94-370.94

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS	
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM		
23227	12.22	13.22	1.00							2950	73	24	3.2	2					
23231	73.00	73.50	0.50							104	66	18	0.8	1					
23233	97.65	98.15	0.50											1					
23234	110.26	110.76	0.50							21	17	155	6.7	3750					
23243	249.50	250.50	1.00							91	34	21	0.6	34					
23244	271.35	271.85	0.50							160	85	14	0.9	1	1340				
23246	282.33	283.33	1.00							2950	970	26	5.3	2					
23250	317.02	317.52	0.50	2.47	.01	.01	7.2	.02											

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23226	8.92	9.42	0.50	15.3	0.005	13.57	16.73	0.17	3.98	0.27	0.01	0.32	41.69	0.97	1.35	94.34	5.3	1	4	6514	50	8	108	15
23228	26.00	29.00	3.00	14.9	0.015	12.27	12.41	1.23	3.12	0.24	0.51	0.28	46.13	0.91	1.06	93.07	1.4	10	20	103	30	1	54	5
23229	36.00	39.00	3.00	16.11	0.02	4.28	4.98	1.66	2.09	0.1	3.11	0.13	62.56	0.47	0.15	95.67	0.6	1	20	30	17	1	40	10
23230	55.20	58.20	3.00	16.02	0.075	4.67	6.84	1.98	3.09	0.15	3.13	0.15	58.14	0.89	0.38	95.51	1.7	1	54	73	30	1	70	5
23232	78.00	81.00	3.00	17.35	0.025	5.53	8.14	0.44	4.46	0.15	4.9	0.19	52.38	1.05	0.16	94.79	2.5	4	17	56	46	2	77	5
23235	115.52	118.52	3.00	15.58	0.02	5.55	3.69	0.42	1.43	0.09	4.03	0.13	65.77	0.51	0.02	97.24	1.2	6	32	6	14	1	31	5
23236	139.45	142.45	3.00	15.02	0.065	2.66	3.24	1.59	1.15	0.06	4.52	0.09	68.27	0.5	0.11	97.29	0.9	11	58	25	7	1	23	5
23237	169.77	172.77	3.00	14.75	0.095	3.57	3.28	3.64	1.3	0.08	2.5	0.1	66.25	0.49	0.08	96.15	0.7	12	109	5	14	1	24	5
23238	198.40	201.40	3.00	13.97	0.065	2.31	2.78	1.4	1.37	0.05	4.01	0.07	70.47	0.39	0.01	96.9	0.5	13	84	4	58	4	22	5
23242	220.98	223.98	3.00	18.21	0.035	9.2	8.17	0.21	5.15	0.22	3.92	0.24	46.56	1.11	0.02	93.05	2.7	5	143	10	51	4	83	5
23239	234.81	235.81	1.00	16.67	0.075	2.28	6.56	3.53	2.77	0.1	1.45	0.13	60.4	0.87	2.4	97.22	1.5	36	64	48	31	2	126	5
23240	246.12	247.12	1.00	15.75	0.075	2.87	2.9	3.77	2.25	0.09	0.77	0.1	63.35	0.45	0.29	92.67	0.4	12	68	16	20	1	39	15
23241	247.12	248.12	1.00	14.29	0.075	2.44	2.36	4.2	2.01	0.08	0.78	0.09	66.33	0.42	0.47	93.55	0.5	10	143	9	16	1	26	60
23245	274.85	277.85	3.00	13.48	0.09	1.16	3.12	3.87	2.04	0.1	2.02	0.1	68.14	0.4	1.39	95.9	0.6	22	222	875	18	1	148	5
23247	284.00	287.00	3.00	15.89	0.06	0.75	5.36	2.65	4.78	0.17	0.05	0.12	63.4	0.7	1.54	95.46	0.5	9	58	50	42	1	101	5
23248	302.00	305.00	3.00	14.74	0.1	0.57	3.66	2.74	3.43	0.27	0.77	0.11	68.5	0.52	0.52	95.95	0.4	4	138	55	27	1	194	5
23249	315.02	316.00	0.98	18.71	0.015	0.97	10.1	0.39	14.17	0.41	0.01	0.25	44.43	1.1	0.86	91.41	1.3	1	17	75	75	2	242	5
23251	319.52	322.52	3.00	12.78	0.04	0.09	1.57	1.84	3.81	0.09	0.03	0.08	75.45	0.15	0.13	96.07	0.3	13	36	6	36	1	73	5
23252	336.00	339.00	3.00	14.93	0.055	0.14	2.79	2.59	3.82	0.11	0.48	0.09	70.03	0.42	0.51	95.96	0.2	17	42	19	29	1	93	5
23253	356.30	359.30	3.00	10.98	0.035	0.2	5.58	1.08	3.86	0.12	0.01	0.11	72.36	0.27	2.25	96.85	0.3	14	55	8	33	1	69	5
23254	367.94	370.94	3.00	14.38	0.13	0.47	2.29	2.55	2.82	0.1	2.24	0.08	70.53	0.41	0.26	96.26	0.5	17	279	13	20	1	60	5



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	«O.B.»					Casing no core
6.10 TO 14.17	ANDESITE LAPILLI TUFF «AND BLT»	colour: dark green -massive heterolithic, rock fragments of FP felsics with 3-5% epidotized feldspars and fine grained FP andesite fragments 5-7% epidotized feldspars in fine grained tuff groundmass.		«MOD EP» moderate epidote as alteration of feldspars	«tr - 1% py»	23266 9.91 - 12.91
14.17 TO 16.46	MAFIC DYKE «M DYKE»	colour: dark green grey grain: f. gr. -massive 5-6% 2-4 mm white fresh feldspars in a very fine grained groundmass.				
16.46 TO 25.55	ANDESITE TUFF BRECCI XSTAL TUFF «AND TBX» «XT»	colour: dark green grain: f-c gr. -Indistinct round fragments of feldspar phyrlic fragments in a fine grained feldspar phyrlic andesite groundmass. -rare <1cm felsic lithic fragments up to 3cm epidote clots possible fragments? with trace hematite towards base of unit 2-3cm fragments similar to groundmass		«M - S ep» moderate to strong epidote as altered feldspar crystals and irregular epidote patches to 3cm.	tr - <1% py	
25.55 TO 27.70	ANDESITE TO DACITE LAPILLI TUFF? «ANDDAC LT»	colour: light green grey grain: f.gr. -fairly massive possible large blocks of chlorite amygdaloidal And-dac fragments 1% <1-2cm felsic lithics possible epidote amygdule moderate lithics towards base. sharp lower contact	65	weak epidote	25.55 - 27.35 3-5% finely disseminated pyrite Coarse grained massive pyrite as follows: 25.57 - 25.58 25.91 - 25.93 26.42 - 26.52	23267 25.55 - 26.05  23268 26.05 - 26.55 Traces only
27.70 TO 38.76	ANDESITE CRYSTAL TUFF, LAP TUFF «AND XT,LT»	colour: green grain: f.g.r. -5-7% 1-3mm green epidotized feldspar laths and occasional 1-4 cm fragments of same rock type. Rare <1-3 cm epidote patches with weak hematite sharp lower contact marked by sudden occurrence of purple felsic fragments.		moderate epidote as altered feldspars and occasional patches.	<1% disseminated pyrite 35.95 - 38.76 1-2% pyrite 5-7% cm py stringers at 37.6 and 38.2m	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
38.76 TO 75.72	ANDESITE LAPILLI TUFF, TUFF BRECCIA «ANDLT/TBX»	colour: purple green grain: f-c gr. -monolithic rounded light purple felsic fragments from 1-18cm averaging around 2-4cm. Matrix supported, matrix fine grained weakly feldspar phyrlic. Occasional fragments of groundmass type material from 44.9 - 45.7 and 48.72 - 50.9		weak epidote within groundmass. Weak hermotite confined to fragments.	<1% pyrite	
75.72 TO 108.00	ANDESITE LAPILLI TUFF CRYST TUFF TUFF BRECCIA «AND LT,XT TBX»	colour: dark green grain: m-c gr. -heterolithic lapilli tuff with felsic and andesitic lithic fragments with occasional fsp crystal tuff beds. Detailed breakdown as follows 75.72 - 79.55 Andesite, lapilli tuff/tuff breccia 2-4cm and up to 12cm of purple felsic lithics, green dacite - andesite, and epidotized andesite Decrease in fragment size and abundance downhole. 79.55 - 85.92 Andesite Crystal tuff: 7-10% green epidotized 1-2 mm feldspar laths and occasional 3-10cm irregular epidote patches. lower contact marked by appearance of fragments 85.92 - 100.05 Andesite lapilli tuff fsp phyrlic rounded andesite fragments 2.5 - 4 cm and occasionally to 6cm in a coarse andesitic groundmass with 5-15% <0.5 cm grey felsic lithics, matrix to fragment supported. 100.05 - 107.15 Andesite tuff breccia, lapilli tuff 3cm-7cm and locally 12cm fragments of fsp andesite lithics with <1% felsic lithics. Fragment supported patchy matrix supported rubbly core at lower contact.		moderate epidote  Moderate epidote as altered feldspars and epidote patches  Moderate epidote within groundmass and as epidotized feldspars	<1% pyrite  77.95 - 78.18 3% Coarse brassy pyrite  tr py  95.2 10cm pyrite epidote stringer, 15-20% coarse pyrite  tr pyrite	23270 80.5 - 83.67
108.00 TO 112.82	ANDESITE ASH, TUFF «AND,ASH, TUFF»	colour: dark green grain: f.gr. -fairly massive indistinct distorted bedding 5-6cm thick at top of interval <1% epidotized feldspars. 109.7 possible downhole fining, good bedding measurement 109.7 bdy occasional 1-2mm magnetite stringers	60	Weak epidote	<1% pyrite	23271 109.3 - 109.8 geochem  23272 109.8 - 112.5 Lithochem



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
112.82 TO 125.22	RHYOLITE DYKE «RHY DYKE»	colour: creamy grey green grain: f.gr. -massive, siliceous, blocky, very broken 1-3% and locally 5% 1mm subangular quartz eyes below 116.5 becoming quartz and feldspar phyric with 2-3% qtz eyes and 2-3% white feldspars. sharp lower contact	50	strongly siliceous primary feature	114.7 - 117.0 <1 - 1%  brassy pyrite and trace chalcopyrite 115.0 - 115.35 3% brassy py, disseminated aggregates	
125.22 TO 161.40	ANDESITE CRYSTAL TUFF LAPILLI TUF «ANDXT,LT»	colour: dark green grain: f.gr. -1-2% 1-2mm epidotized feldspars and patchy zones of indistinct fragments of andesite XT and mafic lithics with chlorite amygdules fragments 2-4cm, rounded sometimes to 7-8cm Occasional 2-8 cm epidote patches Occasional 0.5 cm magnetite stringers 152.95 - 153.08 anhydrite veining		moderate epidote as epidote patches and epidotized feldspars		23273 136.25 - 139.29  160.10 1cm pyrite aggregate possible fragment
161.40 TO 177.95	ANDESITE LAPILLI TUF «AND LT»	colour: green grain: m-c gr. Heterolithic fragments averaging 1-2cm varying from 4mm - 12cm of AND XT, felsic dome and amygdular mafic fragments Andesite XT matrix, matrix supported subangular to subrounded fragments 167.7 - 170.42 Andesite crystal tuff, ash, rare chert Good fining upwards sequence from 167.7 - 168.3 169.95 - 170.42 and at 169.66m 169.66 bedding	50	moderate epidote	trace pyrite   169.4 - 169.7 Two 3cm ash beds with 1-2% very fine pyrite in 0.5cm bands	23274 164.59 - 167.34 ICP
177.95 TO 207.92	ANDESITE ASH, TUFF CRYSTAL TUF AND LAPILLI TUFF «AND ASH,T XT, LT»	colour: dark green grain: f-c gr. -unit is composed of a series of surges of pyroclastic flows with coarse grained tuffs, xstal tuffs or heterolithic lapilli tuff bases which fines up hole into finer tuffs, ashes and rare cherts. Lapilli tuffs vary in thickness from 10-70cm, fragments usually <1cm in size. Possibly seeing a more distal deposit as majority of material is fine tuff and ash. Individual surge thickness from <1m tp 5m.		weak epidote alteration in feldspar	trace pyrite as very fine disseminated pyrite within rare ash beds.   184.55 - 184.68	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS																												
		<p>good fining uphole sequence seen from</p> <p>178.5 - 178.95, 180.15 - 180.4 185.9 - 186.0, 188.37 - 188.87 192.9 - 193.26, 199.9 - 200.43</p> <p>Bedding measurements as follows</p> <table> <tr><td>180.15</td><td>58</td></tr> <tr><td>181.85</td><td>55</td></tr> <tr><td>182.3</td><td>60</td></tr> <tr><td>182.56</td><td>55</td></tr> <tr><td>182.6</td><td>58</td></tr> <tr><td>183.2</td><td>45</td></tr> <tr><td>185.9</td><td>53</td></tr> <tr><td>188.0</td><td>48</td></tr> <tr><td>190.5</td><td>55</td></tr> <tr><td>193.26</td><td>43</td></tr> <tr><td>198.45</td><td>62</td></tr> <tr><td>198.8</td><td>48</td></tr> <tr><td>200.5</td><td>66</td></tr> <tr><td>201.18</td><td>64</td></tr> </table> <p>gradational lower contact</p>	180.15	58	181.85	55	182.3	60	182.56	55	182.6	58	183.2	45	185.9	53	188.0	48	190.5	55	193.26	43	198.45	62	198.8	48	200.5	66	201.18	64			<1 cm wide stringer at 15 to core axis with fine pyrite and <1% chalcopyrite	23275 190.5 - 193.55
180.15	58																																	
181.85	55																																	
182.3	60																																	
182.56	55																																	
182.6	58																																	
183.2	45																																	
185.9	53																																	
188.0	48																																	
190.5	55																																	
193.26	43																																	
198.45	62																																	
198.8	48																																	
200.5	66																																	
201.18	64																																	
207.92 TO 229.60	ANDESITE CRYSTAL TUFF, LAP TUFF «AND XT,LT»	<p>colour: dark green grain: f-m gr. 2-3% and locally 5% 1-2mm green epidotized feldspar crystals Intervals with 1-4cm rounded fragments of AND XT, rare &lt;1cm felsic lithics and rare fsp phyrlic mafic and frags with mm chlorite spots (amygdules) gradational lower contact</p>		<p>moderate epidote</p> <p>208.4 - 208.7 anhydrite veining 221.25 - 229.6 weak &lt;1cm anhydrite veinlets. Increased frequency below 227m</p>	trace pyrite	23276 220.98 - 224.03 ICP																												
229.60 TO 240.26	ANDESITE LAP TUFF TUFF BRECCI «AND LT, TBX»	<p>colour: dark green -weakly heterolithic with 80% of fragments as subangular to subrounded 1-3cm and block sized Remainder of fragments &lt;1cm dark green, mafic fragments. fsp phyrlic ANDES to matrix poorly sorted, matrix supported, patchy fragment supported zones Occasional 60 - 100 cm zones with up to 40% mafic frags</p>		229.6 - 234.3 rare anhydrite veinlets	<p>trace pyrite</p> <p>240.24 2cm zone with 30% brassy pyrite fine grained associated with quartz gangue possible siliceous exhalite</p>																													
240.26 TO 243.88	DACITE LAP TUFF DACITE ASH SILICEOUS EXHALITE «ASH/EXH»	<p>colour: green grey -heterolithic angular to subrounded fragments of felsic (dome?) dacite domes? Andesite XT/flow? and mafic flow (as very large blocks?) ‡241.0 - 241.15‡ «PY EXH» siliceous chloritic pyrite</p>			<p>‡241.0 - 241.15‡ «25-30% py» 25-30% brassy fine py some framboidal pyrite</p>	23277 240.85 - 241.35 trace only																												

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Exhalite...weakly layered ...sharp lower contact 241.90 - 242.34 Dacite ash? light green f. grained sheared with good c/s fabric at 242.24 and gougy slip plans at 242.05. 242.05 Fault	34  32	241.9 - 242.34 weak sericite	weak layering ‡241.90 - 242.34‡ «5% py» 5% very finely diss py 1.5cm semi massive zone at top of interval ‡243.06 - 243.63‡ «7-10% py» lapilli tuff groundmass pyrite fine, brassy, some framboidal and rolled balls. 243.63 - 243.88 1-2% pyrite within ground mass.	23278 241.9 - 242.34 23279 242.34 - 243.06  23280 243.06 - 243.88
243.88 TO 255.12	ANDESITE LAP TUFF TUFF BRECCI «AND LT, TBX»  E.O.H.	colour: dark green grain: m-c gr. 0.4 - 1.5 cm subrounded heterolithic lithic fragments of felsic (dome?), amygdaloidal mafics and fsp phyric andesite flow. Unit contains 1-2m intervals of fsp phyric sometimes epidote amygdaloidal andesite flow. These intervals may represent extremely large blocks within the lapilli tuff. Andesite flow intervals as follows 246.43 - 247.35 247.80 - 250.0 252.2 - 254.25 Unit poorly suited, fragment supported in places		weak to moderate epidote  Rare 1cm anhydrite veining	trace pyrite    250.0 - 250.3 5% pyrite, weak veining with minor epidote forming weak stockwork within LT groundmass.	23281 250.3 - 252.2 ICP

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL								COMMENTS		
				CU %	ZN %	PB %	AG gm/T	AU gm/T	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	BA PPM	AS PPM	SB PPM			
23268	26.05	26.55	0.50								19	67	26	1.3	39					
23271	109.30	109.80	0.50								8	51	21	1.5	3					
23277	240.85	241.35	0.50								15	89	30	1.7	16	470				
23279	242.34	243.06	0.72								7	76	22	1.3	1					
23280	243.06	243.88	0.82								9	57	29	1.6	5	190				

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SI02 %	TIO2 %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
23266	9.91	12.91	3.00	16.07	0.015	3.72	7.53	0.01	4.01	0.26	4.02	0.19	58.98	1.08	0.19	96.08	1.7	16	18	15	37	1	100	5
23267	25.55	26.05	0.50	14.68	0.025	1.26	14.22	0.99	4.74	0.19	3.82	0.19	48.76	1.03	6.75	96.66	0.9	19	1	3	1	1	1	5
23269	55.17	58.29	3.12	14.44	0.035	0.99	8.44	0.71	4.69	0.17	3.05	0.14	60.66	0.89	3.75	97.96	1	10	48	7	49	1	89	5
23270	80.50	83.67	3.17	17.47	0.005	5.31	9.91	0.01	6.26	0.26	3.5	0.24	50.38	1.22	0.52	95.08	2.2	1	6	9	51	2	97	5
23272	109.80	112.50	2.70	17.94	0.045	2.83	11.22	0.95	6.07	0.22	2.6	0.22	51.92	1.26	0.34	95.61	2.2	1	96	8	50	1	77	5
23273	136.25	139.29	3.04	16.16	0.01	3.04	10.08	0.53	5.46	0.19	4.3	0.2	52.3	1.15	2.86	96.29	2.1	1	31	8	45	2	81	5
23274	164.59	167.34	2.75	16.82	0.035	3.38	6.97	0.88	3.86	0.13	3.85	0.18	58.72	1.01	0.42	96.25	1.9	15	56	7	34	1	52	5
23275	190.50	193.55	3.05	16.01	0.015	2.87	6.71	0.36	4.55	0.15	4.08	0.18	59.42	0.89	0.49	95.71	1.7	14	29	6	42	1	70	5
23276	220.98	224.03	3.05	16.14	0.02	4.2	8.21	0.31	5.17	0.17	3.59	0.22	55.54	1	0.47	95.05	1.9	6	26	8	49	2	77	10
23278	241.90	242.34	0.44	13.89	0.02	6.78	15.68	1.18	8.4	0.24	1.01	0.32	32.75	0.79	7.6	88.66	1.2	1	51	49	67	9	98	10
23281	250.00	252.20	2.20	15	0.03	2.45	10.98	0.61	6.11	0.15	2.58	0.2	54.27	0.79	3.75	96.92	1.1	19	33	7	50	1	63	5