GEOLOG DRILLING LOG PRINTOUTS

HOLES 1 through 18 861060

APRIL PROJECT, LYELL ISLAND

QUEEN CHARLOTTE ISLANDS

VENTURE 168

P. Kowalczyk
Placer Development Ltd.
July 1982
Vancouver, B.C.

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April Project, Lyell Island, Queen Charlotte Islands

HOLE APRDD001BQWL GRID NORTH 9879.31 GRID EAST10123.93
GRID AZIMUTH OF HOLE 270.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 270
TOTAL DEPTH OF HOLE: 106.50mt.
Logged by: MMW on (day/mo/yr)...24JUL81
RHED 000 000RELOGGING JNT SPLIT CORE - LOSS OF STRUCTURAL INFORMATION AND
000 000CONTACT RESOLUTION, ROUGH ESTIMATES OF CORE RECOVERY ONLY

FROM 0.00MT. TO 2.13MT.
OVERBURDEN
0 PC. recovered core in this interval

FROM 2.13MT. TO 5.18MT.
dark green COARSE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% MAGNETITE as microveins
10% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
75 PC. recovered core in this interval
HEAVILY LIMONITE STAINED COARSE GRAINED RHYOLITE - POSSIBLE
COARSE ASH TUFF WITH INTERSTITIAL ALTERED MATERIAL
LARGE BLEACHED AREAS WHERE PYRITE HAS GONE TO LIMONITE

FROM 5.18MT. TO 9.75MT.
dark green FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% QUARTZ (brx. or interfrag. fill) ~~as breccia fillings~~ FLOODING
.03% CHLORITE as pervasive mineralization
75 PC. recovered core in this interval
BRECCIATED AND SILICIFIED TUFF BRECCIA
SECTION BLEACHED OVER LARGE PATCHES SURROUNDING FRACTURES
SECTION IS QUITE RUBBLY WITH CHLORITIC SHEAR TO 9.75M OVER 20 CM
SHEAR at 9.55 MT.

FROM 9.55MT. TO 9.75MT. 100% of this subinterval is the same as 5.18MT. to 9.75MT. except as noted

5% CHLORITE as microveins

FROM 9.75MT. TO 18.55MT.
dark grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.1% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
80 PC. recovered core in this interval
VARIABLE RHYOLITE TUFF - FINE GRAINED SPHERULITIC TO SLIGHTLY COARSER AND LESS SPHERULITIC MATERIAL AAND A SHORT BANDED SECTION (12.40 TO 12.79 METERS)

FROM 18.55MT. TO 23.10MT.
green grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
BANDED SPHERULITIC RHYOLITE VARIABLY BANDED

FROM 23.10MT. TO 36.20MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
SECTION IS ESSENTIALLY TUFF BUT HAS BEEN WELL BRECCIATED WITH THE ODD PIECE OF SPHERULITIC MATERIAL AND FRAGMENT
FAULT at 33.50 MT.

FROM 33.50MT. TO 36.10MT. 30% of this subinterval is GOUGE
SECTION AS ABOVE BUT WITH GOUGY MATERIAL
DYKE at 36.20 MT.

FROM 36.20MT. TO 36.55MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (irregular) dip 30,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.1% CARBONATES as amydaloids, cavity fillings
90 PC. recovered core in this interval
SHORT SECTION OF DYKE MATERIAL FINES AT CONTACTS

FROM 36.55MT. TO 51.77MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 65,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
VARIABLE FRAGMENTAL WITH INCREASING ALTERATION TO 48.73 METERS

FROM 41.50MT. TO 45.68MT. 10% of this subinterval is
GOUGE

FROM 45.68MT. TO 48.73MT. 20% of this subinterval is
GOUGE
FAULT at 50.45 MT.

FROM 50.45MT. TO 50.75MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
DYKE at 51.77 MT.

FROM 51.77MT. TO 52.99MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (straight) dip 70,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.3% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval
FINES AT CONTACTS, TOP CONTACT ORIGINAL, BOTTOM CONTACT MISSING

FROM 52.99MT. TO 53.75MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 53.75MT. TO 55.95MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
WITH THE ODD FRAGMENT

FROM 55.95MT. TO 73.95MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 40,
1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE FRAGMENTAL

FROM 63.35MT. TO 65.80MT. 10% of this subinterval is
GOUGE

FROM 64.90MT. TO 65.10MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 68.43MT. TO 68.53MT. 100% of this subinterval is the same as 55.95MT. to 73.95MT. except as noted

100% QUARTZ VEINING as veins
10 CM QUARTZ VEIN IN HIGH GOLD ASSAY SECTION

FROM 73.95MT. TO 74.65MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.1% CARBONATES as amygdaloids, cavity fillings
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE.

FROM 74.65MT. TO 79.50MT.
green grey FINE DACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
5% CARBONATES as microveins
.3% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval

FROM 79.47MT. TO 79.50MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 65,

FROM 79.50MT. TO 80.55MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 65,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 80.55MT. TO 85.28MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
POSSIBLE WELDED LAPILLI TUFF.

FROM 85.28MT. TO 85.48MT.
green grey GOUGE
Textures noted: , EQUIGRANULAR

FROM 85.48MT. TO 86.75MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
70 PC. recovered core in this interval
RUBBLY ANDESITE DYKE.

FROM 86.75MT. TO 100.76MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as microveins
.3% QUARTZ (brx. or interfrag. fill) as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
QTZ/PY VEINLETS WITH ALTERATION SELVAGES.

FROM 100.76MT. TO 106.50MT.
green grey ANDESITE DACITE TUFF
.01% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% PYRITE DISSEM. &/OR VEINING as microveins
.1% QUARTZ (brx. or interfrag. fill) as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	212	518	C1600		0.55	285	
A001	518	731	C1601		0.36	285	
A001	731	975	C1602		0.15	255	
A001	975	1278	C1603		0.09	150	
A001	1278	1614	C1604		0.09	110	
A001	1614	1919	C1605		0.09	107	
A001	1919	2131	C1606		0.09	61	
A001	2131	2421	C1607		0.30	38	
A001	2421	2741	C1608		0.09	17	
A001	2741	3046	C1609		0.09	53	
A001	3046	3350	C1610		0.15	77	
A001	3350	3655	C1611		0.09	25	
A001	3655	3959	C1612		0.09	41	
A001	3959	4263	C1613		3.48	101	
A001	4263	4569	C1614		0.09	48	
A001	4569	4873	C1615		0.15	85	
A001	4873	5178	C1616		0.36	97	
A001	5178	5298	C1617		0.09	23	
A001	5298	5496	C1618		0.97	100	
A001	5496	5786	C1619		0.09	79	
A001	5786	6090	C1620		0.15	71	
A001	6090	6396	C1621		0.36	77	

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A001   6396   6701      C1622        4.83     73
A001   6701   7005      C1623        9.36     71
A001   7005   7310      C1624        1.40     24
A001   7310   7614      C1625        0.79     69
A001   7614   7918      C1626        0.09     41
A001   7918   8222      C1627        0.09     29
A001   8222   8527      C1628        0.09     19
A001   8527   8831      C1629        0.15     14
A001   8831   9136      C1630        0.09     25
A001   9136   9442      C1631        0.09     27
A001   9442   9746      C1632        0.09     19
A001   9746  10051      C1633        0.09     22
A001  10051  10355      C1634        0.09     19
A001  10355  10507      C1635        0.09     12
/END
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HOLE APRDD002BOWL GRID NORTH 9766.19 GRID EAST10159.41
GRID AZIMUTH OF HOLE 300.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 300
TOTAL DEPTH OF HOLE: 77.66mt.
Logged by: MMW on (day/mo/yr)...25JUL81
RHED RELOGGING JNT SPLIT CORE, LOSS OF STRUCTURAL INFORMATION AND CONTACT RESOLUTION
ROUGH ESTIMATES OF CORE RECOVERY ONLY.

FROM 0.00MT. TO 1.00MT.
OVERBURDEN
0 PC. recovered core in this interval
PERVASIVE LIMONITE STAINS CORE BROWN TO 6.09 METERS.

FROM 1.00MT. TO 29.60MT.
green grey COARSE SPHERUL. RHYOLITIC TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as macroveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 1.00MT. TO 6.09MT. 100% of this subinterval is the same as 1.00MT. to 29.60MT. except as noted

VARIABLE SECTION, APPEARS FRAGMENTAL, LAPILLITIC, AND TUFFACEOUS IN PLACES. IT CAN BE LUMPED AS A COARSE ASH TO A LAPILLI TUFF WHICH HAS BEEN PARTIALLY BRECCIATED AND SILICIFIED IN PLACES.
CORE SPLITTING HAS REMOVED DETAIL BUT OVERALL DESCRIPTION FITS.

FROM 29.60MT. TO 34.10MT.
green grey MEDIUM RHYODACITE FRAG. TUFF
Textures noted: BRECCIATED
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYODACITE FRAGMENTAL WITH A NUMBER OF RHYOLITE FRAGMENTS.
CORE BECOMES INCREASINGLY RUBBLY AND CHLORITIC TOWARDS 33.90 METERS.
FAULT at 33.00 MT.

FROM 33.00MT. TO 34.10MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
at 34.10 MT.

FROM 34.10MT. TO 35.02MT.
MISSING CORE
0 PC. recovered core in this interval

FROM 35.02MT. TO 35.85MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
5% MAGNETITE as breccia fillings
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
SOME SILICEOUS AREAS WITH ASSOCIATED PYRITE.
at 35.85 MT.

FROM 35.85MT. TO 36.55MT.
MISSING CORE
0 PC. recovered core in this interval

FROM 36.55MT. TO 49.95MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
80 PC. recovered core in this interval
MATRIX IS GENERALLY WELL ALTERED WITH SOME GOUGY AND RUBBLY
SECTIONS. A FEW SECTIONS (UP TO 35 CM) APPEAR AS TUFF BEDS
BUT ARE PROBABLY LARGE FRAGMENTS (BOULDER SIZE).
FAULT at 40.65 MT.

FROM 40.65MT. TO 40.85MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 41.93 MT.

FROM 41.93MT. TO 42.03MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 42.50 MT.

FROM 42.50MT. TO 42.60MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 48.15 MT.

FROM 48.15MT. TO 48.35MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 49.50 MT.

FROM 49.50MT. TO 49.95MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 49.95MT. TO 54.25MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% MAGNETITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
1% CARBONATES as veins
100 PC. recovered core in this interval
PYRITE AS RIMS TO FRAGMENTS, REPLACING FRAGMENTS
DISSEMINATIONS, AND AS MICROVEINS.

FROM 51.80MT. TO 52.05MT. 100% of this subinterval is the same as 49.95MT. to 54.25MT. except as noted

5% QUARTZ VEINING as veins
? QUARTZ FLOODING as framework crystals
10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 52.99MT. TO 53.29MT. 100% of this subinterval is the same as 49.95MT. to 54.25MT. except as noted

? QUARTZ FLOODING as framework crystals
10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 54.25MT. TO 55.62MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.1% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COARSE ASH TUFF

FROM 55.62MT. TO 56.63MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
1% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.03% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.1% EPIDOTE as amydaloids, cavity fillings
100 PC. recovered core in this interval
QUARTZ ANDESITE TO DACITE FLOW. OCCAISIONAL CALCITE FILLED
AMYGDULES WITH EPIDOTE RIMS. CLASSIC BLUE QUARTZ EYES.

FROM 56.63MT. TO 68.15MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
2.5% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ACTUALLY A SERIES OF COARSE ASH TO LAPILLI, DACITE TO RHYODACITE
TUFFS.

FROM 68.15MT. TO 68.58MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
1% EPIDOTE as microveins
100 PC. recovered core in this interval
SHARP BUT IRREGULAR CONTACT.

FROM 68.58MT. TO 77.66MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
2.5% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
AGAIN, MOSTLY COARSE ASH TO LAPILLI, DACITE TO RHYODACITE TUFFS.

FROM 71.63MT. TO 72.15MT. 100% of this subinterval is
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
1% EPIDOTE as microveins
100 PC. recovered core in this interval

FROM 74.84MT. TO 75.15MT. 100% of this subinterval is
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: BANDING (irregular)
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
POSSIBLE FLOW OR TUFF

FROM 76.80MT. TO 76.95MT. 100% of this subinterval is
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: BANDING (irregular)
2.5% QUARTZ VEINING as veins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	90	305	C1636		0.09	36	
A001	305	608	C1637		0.09	25	
A001	608	913	C1638		0.09	36	
A001	913	1217	C1639		0.09	95	
A001	1217	1523	C1640		0.09	57	
A001	1523	1826	C1641		0.09	80	
A001	1826	2131	C1642		0.09	120	
A001	2131	2436	C1643		0.09	53	
A001	2436	2741	C1644		0.09	165	
A001	2741	3046	C1645		0.09	225	
A001	3046	3350	C1646		2.81	180	
A001	3350	3655	C1647		0.09	160	
A001	3655	3959	C1648		0.09	29	
A001	3959	4203	C1649		0.09	45	
A001	4203	4538	C1650		0.15	180	
A001	4538	4842	C1651		0.09	150	
A001	4842	4959	C1652		0.09	85	
A001	4959	5330	C1653		0.24	80	
A001	5330	5634	C1654		2.20	80	

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A001  5634  5938     C1655        0.36    95
A001  5938  6244     C1656        0.09    61
A001  6244  6547     C1657        0.09    63
A001  6547  6852     C1658        0.09    25
A001  6852  7156     C1659        0.09    15
A001  7156  7461     C1660        0.15    29
A001  7461  7765     C1661        0.09    36
/END
```

HOLE APRDD003BQWL GRID NORTH 9766.19 GRID EAST10159.41
GRID AZIMUTH OF HOLE 300.00 VERTICAL ANGLE -80.00
TRUE AZIMUTH OF HOLE 300
TOTAL DEPTH OF HOLE: 91.37mt.
Logged by: MMW on (day/mo/yr)...26JUL81
RHED RELOGGING J.M.T. SPLIT CORE. LOSS OF STRUCTURAL INFORMATION AND CONTACT RESOLUTION, APPROXIMATE ESTIMATES FOR CORE RECOVERY ONLY.

FROM 0.00MT. TO 1.52MT.
OVERBURDEN
0 PC. recovered core in this interval
PERVASIVE LIMONITE GIVES BROWN COLOUR TO THE TOP 5.68 METERS.

FROM 1.52MT. TO 8.25MT.
green grey MEDIUM SPHERUL. RHYOLITIC TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
85 PC. recovered core in this interval

FROM 1.52MT. TO 7.20MT. 100% of this subinterval is the same as 1.52MT. to 8.25MT. except as noted

90 PC. recovered core in this interval
COARSE ASH TO FINE LAPILLI TUFF, PARTIALLY BRECCIATED.

FROM 8.25MT. TO 15.45MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , SPHERULITIC , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
2.5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% MAGNETITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
WITH THE SPLIT CORE, CONTACTS/MARGINS ARE HARD TO SEE BUT THE VARIABILITY IN THE FRAGMENTS SUGGESTS THAT THIS IS A COARSE FRAGMENTAL. MOST OF THE MATERIAL IS SPHERULITIC (5-50%).

FROM 15.45MT. TO 20.70MT.
dark grey FINE RHYOLITE SPHER. FRAG. TUFF
Textures noted: , SPHERULITIC , AGGLOMERITIC
.3% QUARTZ VEINING as microvnins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
SPHERULITIC TUFF BRECCIA WITH VERY FINE PYRITE
THIS MATERIAL IS UNLIKE MUCH OF THE OTHER RHYOLITE FRAGMENTAL;
- DARK GREY, -HIGHLY SPHERULITIC, -NO CHLORITE, -DENSE, AND
UNBRECCIATED.
DEVELOPMENT OF MINOR CHLORITE IN THE FRAGMENTS TENDS TO
HIGHLIGHT THEM.

FROM 20.70MT. TO 21.50MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 05,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MATERIAL HAS BEEN HEAVILY SILICIFIED AND PYRITIZED TO THE EXTENT
THAT THE ORIGINAL CHARACTER OF THE ROCK HAS BEEN LOST EXCEPT IN
THE FRAGMENTS.

FROM 21.50MT. TO 29.60MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 45,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
90% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MORE TYPICAL OF THE RHYODACITE LAPILLI TUFF
HEAVY DISSEMINATIONS AND FRACTURE FILLINGS OF PYRITE, ALSO AS
SELVAGES TO QUARTZ VEINS.

FROM 29.60MT. TO 35.23MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 30,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.1% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ALTERED MATRIX TOWARDS 35.23 METERS BUT REMAINS COMPETANT

DYKE at 35.23 MT.

FROM 35.23MT. TO 36.40MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (irregular) dip 40,
.1% QUARTZ VEINING as microveins
2.5% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 36.40MT. TO 46.35MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 45,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHARP BUT ORIGINAL CONTACT, - MICRO-FAULTED ACROSS ORIGINAL CONTACT
FAULT at 40.20 MT.

FROM 40.20MT. TO 40.35MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 00,
FAULT at 40.80 MT.

FROM 40.80MT. TO 42.33MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 44.05 MT.

FROM 44.05MT. TO 44.20MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 44.80 MT.

FROM 44.80MT. TO 45.15MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 46.35MT. TO 47.88MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE PORPHYRY

FROM 47.88MT. TO 53.45MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.3% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% MAGNETITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT at 47.88 MT.

FROM 47.88MT. TO 48.55MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 49.08MT. TO 50.00MT. 100% of this subinterval is
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 50,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
DYKE at 53.45 MT.

FROM 53.45MT. TO 54.80MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 54.80MT. TO 59.90MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 40,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% MAGNETITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SOMEWHAT ALTERED MATRIX BUT IS COMPETANT CORE.

FROM 59.90MT. TO 70.35MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
5% CARBONATES as microveins
.3% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYODACITE COARSE ASH TO FINE LAPILLI TUFF

FROM 66.10MT. TO 66.70MT. 100% of this subinterval is
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 05,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization

FROM 67.04MT. TO 67.25MT. 100% of this subinterval is
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 20,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization

FROM 70.35MT. TO 71.80MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 71.80MT. TO 91.37MT.

green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
10% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval

A001

AUMM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	151	456	C1662		0.09	39	
A001	456	761	C1663		0.09	45	
A001	761	1065	C1664		0.09	100	
A001	1065	1371	C1665		0.09	100	
A001	1371	1676	C1666		0.09	73	
A001	1675	1979	C1667		0.09	145	
A001	1979	2283	C1668		0.30	205	
A001	2283	2589	C1669		0.79	315	
A001	2589	2893	C1670		0.91	205	
A001	2893	3198	C1671		0.15	107	
A001	3198	3532	C1672		0.09	83	
A001	3532	3715	C1673		0.09	17	
A001	3715	4051	C1674		0.09	41	
A001	4051	4234	C1675		0.15	190	
A001	4234	4598	C1676		0.09	41	
A001	4598	4811	C1677		0.09	16	
A001	4811	5025	C1678		1.10	65	
A001	5025	5359	C1679		0.30	45	
A001	5359	5482	C1680		0.09	63	
A001	5482	5786	C1681		0.09	65	
A001	5786	6090	C1682		2.08	62	
A001	6090	6396	C1683		0.09	32	
A001	6396	6701	C1684		0.09	39	
A001	6701	7005	C1685		0.09	39	
A001	7005	7310	C1686		0.09	32	
A001	7310	7614	C1687		0.09	45	
A001	7614	7918	C1688		0.09	41	
A001	7918	8322	C1689		0.09	16	
A001	8322	8527	C1690		0.09	17	
A001	8527	8831	C1691		0.09	17	
A001	8831	9136	C1692		0.09	17	

/END

HOLE APRDD004BQWL GRID NORTH 9707.82 GRID EAST10208.00
GRID AZIMUTH OF HOLE 148.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 148
TOTAL DEPTH OF HOLE: 185.79mt.
Logged by: BB on (day/mo/yr)...04AUG81

FROM 0.00MT. TO 3.00MT.
OVERBURDEN
0 PC. recovered core in this interval

FROM 3.00MT. TO 8.00MT.
green grey MEDIUM RHYODAICTE LAPILLI TUFF
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 8.00MT. TO 8.50MT.
green grey MEDIUM SPHERUL. RHYOLITIC TUFF
.01% QUARTZ VEINING as macroveins, and veins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 8.50MT. TO 30.50MT.
green grey MEDIUM RHYODAICTE LAPILLI TUFF
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
DACITIC TO RHYOLITIC FRAGMENTS UP TO 5 CM (AUG = 5MM).

FROM 23.50MT. TO 23.90MT. 100% of this subinterval is
GOUGE

FROM 24.90MT. TO 25.30MT. 100% of this subinterval is
GOUGE

FROM 30.50MT. TO 61.30MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.03% CHLORITE as pervasive mineralization

FROM 61.30MT. TO 65.50MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% CHLORITE as pervasive mineralization

FROM 62.70MT. TO 65.50MT. 50% of this subinterval is
GOUGE

FROM 65.50MT. TO 70.30MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.03% CHLORITE as pervasive mineralization
FRAGMENTS WITH HEMATITE STAINING.

FROM 69.50MT. TO 70.30MT. 40% of this subinterval is
GOUGE

FROM 70.30MT. TO 70.45MT.
green grey FINE RHYODACITE LAPILLI TUFF
.01% QUARTZ VEINING as microveins
.01% PYRITE DISSEM. &/OR VEINING as microveins
.01% CHLORITE as pervasive mineralization
POSSIBLE LARGE FRAGMENT.

FROM 70.45MT. TO 77.80MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as microveins
.01% CHLORITE as pervasive mineralization
SECTION HAS SOFT MATRIX - ALTERED, GOUGY.

FROM 75.50MT. TO 76.20MT. 100% of this subinterval is
GOUGE
FAULT at 76.50 MT.

FROM 76.50MT. TO 76.90MT. 100% of this subinterval is
GOUGE

FROM 77.80MT. TO 81.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.03% CHLORITE as pervasive mineralization

FROM 81.00MT. TO 82.30MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 81.00MT. TO 81.60MT. 50% of this subinterval is
GOUGE
WELL ALTERED GOUGY SECTION

FROM 82.30MT. TO 95.10MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 40,
.1% QUARTZ VEINING as microveins
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.01% CHLORITE as pervasive mineralization
.1% EPIDOTE as veins and occasional envelopes
EPIDOTE OCCURS AS PATCHES AND IN FRACTURES
POSSIBLY RELATED TO CALCITE

FROM 95.10MT. TO 97.20MT.
green grey FINE DACITE LAPILLI TUFF
.01% QUARTZ VEINING as microveins
.1% CARBONATES ss microveins
.1% MAGNETITE as microveins
.01% GALENA as microveins
.01% EPIDOTE as veins and occasional envelopes
EPIDOTE AS ABOVE

FROM 97.20MT. TO 114.10MT.
green grey FINE DACITE TUFF
2.5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.01% CHLORITE as pervasive mineralization
FELDSPAR AS OCCASIONAL PHENOCRYSTS

FROM 114.10MT. TO 127.80MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
1% MAGNETITE as clasts
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

FROM 117.20MT. TO 118.10MT. 100% of this subinterval is the same as 114.10MT. to 127.80MT. except as noted

PHENOCRYSTS OF FELDSPAR TO 2 MM

FROM 118.10MT. TO 118.40MT. 100% of this subinterval is the same as 114.10MT. to 127.80MT. except as noted

Textures noted: BRECCIATED

FROM 127.80MT. TO 129.00MT.
dark grey DIORITE PORPHYRY? (codeDRXF)
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
PHENOCRYSTS OF FELDSPAR IN LATHS TO 3 MM

FROM 129.00MT. TO 138.00MT.
green grey ANDESITE DACITE TUFF
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 129.00MT. TO 134.50MT. 100% of this subinterval is the same as 129.00MT. to 138.00MT. except as noted

FROM 133.10MT. TO 133.28MT. 100% of this subinterval is
GOUGE

FROM 134.50MT. TO 136.10MT. 100% of this subinterval is
GOUGE

FROM 136.10MT. TO 136.60MT. 100% of this subinterval is
GOUGE
Textures noted: , AMYGDALOIDAL
.3% ZEOLITE as amydaloids, cavity fillings
FELDSPAR LATHS AS PHENOCRYSTS, ZEOLITE FILLED AMYGDULES

FROM 138.00MT. TO 147.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

FROM 147.00MT. TO 167.60MT.
green grey FINE RHYODACITE TUFF
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
DACITE TO RHYODACITE, QTZ FLOODED

FROM 160.80MT. TO 161.20MT. 50% of this subinterval is
GOUGE

FROM 163.20MT. TO 163.60MT. ? of this subinterval is the same as 147.00MT. to 167.60MT. except as noted

Textures noted: , BRECCIATED
.03% QUARTZ FLOODING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.

FROM 167.60MT. TO 170.20MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% CHLORITE as pervasive mineralization
SECTION STRONGLY SHEARED

FROM 170.20MT. TO 183.97MT.
green grey ANDESITE DACITE TUFF
.03% QUARTZ VEINING as microveins
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as breccia fillings
.1% CHLORITE as pervasive mineralization

FROM 181.40MT. TO 182.00MT. 100% of this subinterval is
GOUGE

FROM 183.97MT. TO 185.20MT.
green grey FINE RHYODACITE TUFF
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization

FROM 185.20MT. TO 185.79MT.
green grey ANDESITE DACITE TUFF
.03% QUARTZ VEINING as microveins
5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.03% CHLORITE as pervasive mineralization

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	305	549	C1693		0.09	63	
A001	549	762	C1694		0.09	15	
A001	762	1036	C1695		0.09	41	
A001	1036	1311	C1696		0.09	22	
A001	1311	1646	C1697		0.09	20	
A001	1646	1828	C1698		0.09	50	
A001	1828	2133	C1699		0.09	7	
A001	2133	2438	C1700		0.15	7	
A001	2438	2743	C1701		0.09	23	
A001	2743	3048	C1702		0.09	19	
A001	3048	3353	C1703		0.09	16	
A001	3353	3580	C1704		0.09	19	
A001	3580	3809	C1705		0.09	7	

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A001  3809  4023    C1706      0.09    9
A001  4023  4359    C1707      0.09   16
A001  4359  4571    C1708      0.09   23
A001  4571  4876    C1709      0.15   17
A001  4876  5182    C1710      0.09   17
A001  5182  5486    C1711      0.09   30
A001  5486  5790    C1712      0.09   73
A001  5790  6096    C1713      0.09   39
A001  6096  6401    C1714      0.09   25
A001  6401  6706    C1715      0.09   88
A001  6706  7010    C1716      0.09   88
A001  7010  7314    C1717      0.30   94
A001  7314  7619    C1718      0.09   59
A001  7619  7925    C1719      0.09   59
A001  7925  8228    C1720      0.09   16
A001  8228  8539    C1721      0.09   36
A001  8539  8839    C1722      0.09   15
A001  8839  9143    C1723      0.09    9
A001  9143  9448    C1724      0.09   11
A001  9448  9752    C1725      0.09   20
A001  9752 10057    C1726      0.09   20
A001 10057 10363    C1727      0.09   79
A001 10363 10668    C1728      0.09   35
A001 10668 10972    C1729      0.09   15
A001 10972 11277    C1730      0.09   22
A001 11277 11581    C1731      0.09    5
A001 11581 11886    C1732      0.09    5
A001 11886 12160    C1733      0.09    4
A001 12160 12314    C1734      0.09    5
A001 12314 12497    C1735      0.09    3
A001 12497 12801    C1736      0.09    3
A001 12801 13105    C1737      0.09    4
A001 13105 13411    C1738      0.09    3
A001 13411 13715    C1739      0.09    5
A001 13715 14020    C1740      0.09   15
A001 14020 14325    C1741      0.09    5
A001 14325 14629    C1742      0.09   53
A001 14629 14935    C1743      0.09   22
A001 14935 15239    C1744      0.09   36
A001 15239 15545    C1745      0.09   38
A001 13545 15696    C1746      0.09   36
A001 15696 15848    C1747      0.09   23
A001 15848 16154    C1748      0.09   35
A001 16154 16459    C1749      0.09   36
A001 10059 16763    C1750      0.09   41
A001 16763 17069    C1751      0.09   22
A001 17069 17372    C1752      0.09   55
A001 17372 17800    C1753      0.09   29
A001 17800 17982    C1754      0.09   45
A001 17982 18287    C1755      0.09   53
A001 18287 18593    C1756      0.09   16
/END
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HOLE APRDD005BQWL GRID NORTH 9707.82 GRID EAST10208.00
GRID AZIMUTH OF HOLE 0.00 VERTICAL ANGLE -90.00
TRUE AZIMUTH OF HOLE 0
TOTAL DEPTH OF HOLE: 149.54mt.
  Logged by: MMM on (day/mo/yr)...27JUL81

FROM 0.00MT. TO 2.44MT.
OVERBURDEN
0 PC. recovered core in this interval

FROM 2.44MT. TO 3.35MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
20 PC. recovered core in this interval

FROM 3.35MT. TO 4.87MT.
green grey FINE DACITE LAPILLI TUFF
.01% QUARTZ VEINING as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
20 PC. recovered core in this interval
WEATHERED MATERIAL, COARSE ASH TO FINE LAPILLI. CONTACT LOST
IN POOR CORE RECOVERY.

FROM 4.87MT. TO 7.50MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
85 PC. recovered core in this interval
POSSIBLE BRECCIATED TUFF WITH MINOR INHOMOGENAITIES OR
FRAGMENTAL. CONTACT LOST IN RUBBLE.

FROM 7.50MT. TO 9.40MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% PYRITE DISSEM. &/OR VEINING as microveins
.01% QUARTZ (brx. or interfrag. fill) as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 9.40MT. TO 17.35MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 45,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
2.5% PYRITE DISSEM. &/OR VEINING as microveins
.01% QUARTZ (brx. or interfrag. fill) as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
70 PC. recovered core in this interval

FROM 12.63MT. TO 13.20MT. 100% of this subinterval is
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) dip 20,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as microveins
'1. 5% QUARTZ (brx. or interfrag. fill) as vns, microvns, selv. & envel. w some perv./dis. min
.01% CHLORITE as pervasive mineralization

FROM 15.53MT. TO 17.35MT. 100% of this subinterval is the same as 9.40MT. to 17.35MT. except as noted

'1. 5% QUARTZ (brx. or interfrag. fill) as vns, microvns, selv. & envel. w some perv./dis. min

FROM 17.35MT. TO 18.30MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT CONTACT WITH MINOR GOUGE.

FROM 18.30MT. TO 18.70MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.1% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 18.70MT. TO 19.75MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 70,
.01% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
.03% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 19.75MT. TO 23.00MT.
green grey FINE RHYOLITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 30,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 22.40MT. TO 22.80MT. 100% of this subinterval is
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 30,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization

FROM 23.00MT. TO 25.50MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 50,
90% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COARSE ASH TUFF.

FROM 25.50MT. TO 26.96MT.
green grey FINE RHYOLITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 10,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYODACITE TO RHYOLITE LAPILLI TUFF SOME FRAGMENTS REPLACED BY
PYRITE.

FROM 26.96MT. TO 30.94MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
DACITE TO RHYODACITE COARSE ASH TO FINE LAPILLI TUFF.

FROM 30.94MT. TO 35.33MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 30,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
80 PC. recovered core in this interval
40% RUBBLE AND SOME MINOR GOUGE.

FROM 35.33MT. TO 46.15MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: BANDING (irregular) dip 50
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
CONTACT LOST IN RUBBLE. BANDING IS IRREGULAR BUT WHEN IT
OCCURS IT IS ORIENTED AT -50 DEGREES TO PLANE NORMAL TO CORE
AXIS.

FROM 46.15MT. TO 47.75MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
CONTACT LOST IN RUBBLE.

FROM 47.75MT. TO 48.15MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COARSE ASH TUFF.

FROM 48.15MT. TO 48.92MT.
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 60,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FINE RHYOLITE ASH TUFF.

FROM 48.92MT. TO 61.66MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 61.66MT. TO 67.31MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 45, BANDING (irregular) dip 45
5% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 67.31MT. TO 85.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 45,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.3% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
GOOD GOLD VALUES TOWARDS 85.00 BUT ROCK IS UNDIFFERENTIATED.

FROM 73.00MT. TO 75.50MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 85.00MT. TO 85.20MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as selvages
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHARP BUT IRREGULAR CONTACTS (TOP & BOTTOM) FINES AT CONTACTS.

FROM 85.20MT. TO 85.85MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.3% MAGNETITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv.. & envel. w some perv./dis. min'l.
.3% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHARP BUT IRREGULAR CONTACTS (TOP & BOTTOM) FINES AT CONTACTS

FROM 85.85MT. TO 87.80MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 87.80MT. TO 99.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
2.5% CARBONATES as microveins
.3% MAGNETITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
GOUGE INCREASES TOWARDS 99.00 METERS
FAULT at 93.80 MT.

FROM 93.80MT. TO 96.24MT. 30% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 96.63MT. TO 96.90MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 98.50MT. TO 99.00MT. 80% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 99.00MT. TO 104.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.1% MAGNETITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
DARK AND RELATIVELY UNALTERED TUFF

FROM 104.00MT. TO 111.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 106.40MT. TO 110.70MT. 100% of this subinterval is the same as 104.00MT. to 111.00MT. except as noted

Textures noted: BRECCIATED

FROM 110.30MT. TO 111.00MT. 100% of this subinterval is the same as 104.00MT. to 111.00MT. except as noted
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
PHENOCRYSTS OF FELDSPAR - TABULAR TO 4MM IN LENGTH

FROM 111.00MT. TO 123.97MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% MAGNETITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as selvages
.03% CHLORITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals
100 PC. recovered core in this interval
RHYODACITE TO RHYOLITE TUFF TO FLOW
NUMEROUS SMALL(1-4MM) SILICEOUS PATCHES, SOME ARE TABULAR?
ALTERATION ABOUT SHARDS

FROM 123.97MT. TO 127.28MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
DYKE at 127.28 MT.

FROM 127.28MT. TO 128.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 60,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 128.00MT. TO 132.00MT.

green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 60,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% MAGNETITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval

FROM 132.00MT. TO 149.54MT.

green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% MAGNETITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as selvages
.03% CHLORITE as pervasive mineralization
.1% PYRITE as disseminations and scattered crystals

100 PC. recovered core in this interval

SOFTER THAN OTHER RHYOLITES - RHYOLITE TO RHYODACITE

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	243	487	C1757		0.09	39	
A001	487	792	C1758		0.09	39	
A001	792	1096	C1759		0.09	41	
A001	1096	1400	C1760		0.09	29	
A001	1400	1705	C1761		0.09	27	
A001	1705	2009	C1762		0.09	43	
A001	2009	2315	C1763		0.09	57	
A001	2315	2467	C1764		0.09	71	
A001	2467	2772	C1765		0.09	38	
A001	2772	3075	C1766		0.09	50	
A001	3075	3380	C1767		0.09	25	
A001	3380	3684	C1768		0.09	17	
A001	3684	4036	C1769		0.09	12	
A001	4036	4294	C1770		0.09	7	
A001	4294	4598	C1771		0.09	17	
A001	4598	4903	C1772		0.09	14	
A001	4903	5207	C1773		0.09	39	
A001	5207	5513	C1774		0.15	63	
A001	5513	5801	C1775		0.09	38	
A001	5801	6121	C1776		0.09	43	
A001	6121	6426	C1777		0.09	33	
A001	6426	6731	C1778		0.15	12	
A001	6731	7035	C1779		0.09	4	
A001	7035	7339	C1780		0.09	22	
A001	7339	7644	C1781		0.61	120	
A001	7644	7948	C1782		0.73	94	
A001	7948	8253	C1783		1.10	145	
A001	8253	8557	C1784		21.18	265	
A001	8557	8863	C1785		12.97	50	
A001	8863	9168	C1786		0.67	110	
A001	9168	9472	C1787		0.73	75	

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A001  9472  9777     C1788          0.55   305
A001  9777 10081     C1789          0.55   295
A001 10081 10285     C1790          0.09    69
A001 10385 10660     C1791          0.09    24
A001 10660 10918     C1792          0.09     6
A001 10918 11298     C1793          0.09    41
A001 11298 11603     C1794          0.09    16
A001 11603 11909     C1795          0.09    48
A001 11909 12213     C1796          0.09    25
A001 12213 12510     69751  0.13   -0.02    32
A001 12510 12929     69752  0.05    0.02    -1
A001 12929 13229     69753  0.04    0.05     8
A001 13229 13529     69754  0.08    0.02     5
A001 13529 13829     69755  0.08   -0.02    24
A001 13829 14129     69756  0.07    0.03    18
A001 14129 14429     69757  0.10   -0.02    44
A001 14429 14729     69758  0.09    0.02    30
A001 14729 14954     69759  0.07    0.02    10
/END
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HOLE APRDD006NQWL GRID NORTH 9751.66 GRID EAST10212.72
GRID AZIMUTH OF HOLE 235.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 235
TOTAL DEPTH OF HOLE: 152.71mt.
Logged by: MNW on (day/mo/yr)...09MAY81

FROM 0.00MT. TO 7.25MT.
OVERBURDEN

FROM 7.25MT. TO 7.80MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
WEATHERED ANDESITE TO DACITE, RUBBLY AND WEAKLY MAGNETIC

FROM 7.80MT. TO 9.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
Structures noted: BANDING dip 050
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as amydaloids, cavity fillings
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.1% ZEOLITE as microveins
95 PC. recovered core in this interval
AMYGDALOIDAL ANDESITE FLOW, POSSIBLE DYKE MATERIAL
FLOW BANDING OCCURS OVER THE LAST 30 TO 35 CM OF THE UNIT TO
9.15 METERS

FROM 9.00MT. TO 9.15MT. the same as 7.80MT. to 9.00MT. except as noted

FROM 9.15MT. TO 12.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
SHEAR at 11.48 MT.

FROM 11.48MT. TO 11.67MT. 100% of this subinterval is the same as 9.15MT. to 12.00MT. except as noted
green grey
30% ZEOLITE as microveins

FROM 12.00MT. TO 15.00MT. the same as 9.15MT. to 12.00MT. except as noted

60% RUBBLE IN SECTION
SHEAR at 14.02 MT.

FROM 14.02MT. TO 14.30MT. 100% of this subinterval is the same as 9.15MT. to 12.00MT. except as noted
green grey
30% ZEOLITE as microveins

FROM 15.00MT. TO 18.00MT. the same as 9.15MT. to 12.00MT. except as noted

40% RUBBLE IN SECTION
SHEAR at 17.80 MT.

FROM 17.80MT. TO 18.00MT. 100% of this subinterval is the same as 9.15MT. to 12.00MT. except as noted

2.5% CARBONATES as microveins
20% ZEOLITE as microveins

FROM 18.00MT. TO 21.00MT. the same as 9.15MT. to 12.00MT. except as noted

SHEAR at 19.44 MT.

FROM 19.44MT. TO 20.10MT. 100% of this subinterval is the same as 9.15MT. to 12.00MT. except as noted
green grey
.1% CARBONATES as patches
30% ZEOLITE as microveins

FROM 21.00MT. TO 24.00MT. the same as 9.15MT. to 12.00MT. except as noted

20% RUBBLE IN SECTION
SHEAR at 22.56 MT.

FROM 22.56MT. TO 22.90MT. 100% of this subinterval is the same as 9.15MT. to 12.00MT. except as noted
green grey
20% CHLORITE as pervasive mineralization
CHLORITIC SHEAR ZONE

FROM 24.00MT. TO 26.15MT. the same as 9.15MT. to 12.00MT. except as noted

70% RUBBLE IN SECTION

FROM 26.15MT. TO 27.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.3% QUARTZ VEINING as microveins
1% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHOT THRU WITH QTZ/CARB/ZEOLITE VEINLETS, SOME WITH PYRITE

FROM 27.00MT. TO 28.31MT. the same as 26.15MT. to 27.00MT. except as noted

FROM 28.31MT. TO 30.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (straight) dip 010,
5% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MAY BE A WELL BRECCIATED RHYOLITE TUFF BUT A.NUMBER OF OTHER
FRAGMENTS WERE SEEN

FROM 30.00MT. TO 32.00MT. the same as 28.31MT. to 30.00MT. except as noted

FROM 32.00MT. TO 33.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
.1% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 33.00MT. TO 36.00MT. the same as 32.00MT. to 33.00MT. except as noted

FROM 36.00MT. TO 37.60MT. the same as 32.00MT. to 33.00MT. except as noted

FAULT at 37.53 MT.

FROM 37.53MT. TO 37.55MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 000,

FROM 37.60MT. TO 39.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BECOMES BRECCIATED TOWARDS 39.00 METERS

FROM 39.00MT. TO 39.56MT. the same as 37.60MT. to 39.00MT. except as noted

FROM 39.56MT. TO 42.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 010,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SUB.RECTANGULAR TO RECTANGULAR LATHS OF PROBABLE FELDSPAR
PROBABLE RHYOLITE FELDSPAR PORPHYRY

FROM 42.00MT. TO 42.91MT. the same as 39.56MT. to 42.00MT. except as noted

FROM 42.91MT. TO 44.81MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 44.81MT. TO 45.00MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 45.00MT. TO 46.15MT. the same as 44.81MT. to 45.00MT. except as noted

FROM 46.15MT. TO 48.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 060,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 48.00MT. TO 51.00MT. the same as 46.15MT. to 48.00MT. except as noted

FROM 51.00MT. TO 51.50MT. the same as 46.15MT. to 48.00MT. except as noted

FROM 51.50MT. TO 52.30MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 52.30MT. TO 54.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 050,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MATERIAL FROM 51.50 TO 52.30 APPEARS DACITIC AND MAY BE A DYKE
50% RECOVERY FROM 54.00 TO 55.00 METERS

FROM 54.00MT. TO 57.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.01% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.01% CHLORITE as pervasive mineralization
60 PC. recovered core in this interval
LAPILLI SECTION OVER 30 TO 40 CENTIMETERS

FROM 56.75MT. TO 57.00MT. 100% of this subinterval is the same as 54.00MT. to 57.00MT. except as noted

? QUARTZ FLOODING as framework crystals

FROM 57.00MT. TO 57.90MT. the same as 54.00MT. to 57.00MT. except as noted

5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 57.65MT. TO 57.75MT. 100% of this subinterval is the same as 54.00MT. to 57.00MT. except as noted
medium grey
BLACK SILICEOUS MATERIAL WITH THE ODD RHYOLITIC FRAGMENT

FROM 57.90MT. TO 60.00MT.
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030, BANDING (irregular)
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ROCK IS BROKEN IN PLACES AND SILICA FLOODED WITH ASSOCIATED
PYRITE

FROM 60.00MT. TO 60.20MT. the same as 57.90MT. to 60.00MT. except as noted

FROM 60.20MT. TO 60.76MT.
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 025, BANDING dip 025
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 60.76MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 025,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ALTERED GLASSY MATRIX

FROM 63.00MT. TO 63.15MT. the same as 60.76MT. to 63.00MT. except as noted

FROM 63.15MT. TO 66.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CRYSTAL TUFF, PROBABLE DYKE ROCK, RHYOLITE FELDSPAR PORPHYRY

FROM 66.00MT. TO 69.00MT. the same as 63.15MT. to 66.00MT. except as noted

FROM 69.00MT. TO 70.00MT. the same as 63.15MT. to 66.00MT. except as noted

LOWER CONTACT APPEARS ORIGINAL WITH PHENOCRYSTS BECOMING COARSER
AND MORE NUMEROUS. BANDED AT CONTACT WITH ODD LAPILLI FRAGMENT

FROM 70.00MT. TO 71.02MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 020,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
INTERFRAGMENTAL MATERIAL IS MEDIUM TO COARSE ASH

FROM 71.02MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 030,
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
POSSIBLY A LESS DISTURBED VERSION OF THE ABOVE BUT LACKS PYRITE
AND BRECCIATION

FROM 72.00MT. TO 72.80MT. the same as 71.02MT. to 72.00MT. except as noted

FROM 72.80MT. TO 75.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RUBBLY SHEARED RHYOLITE
FAULT at 72.80 MT.

FROM 72.80MT. TO 73.10MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 74.50 MT.

FROM 74.50MT. TO 74.70MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 75.00MT. TO 78.00MT. the same as 72.80MT. to 75.00MT. except as noted

FAULT at 75.70 MT.

FROM 75.70MT. TO 76.50MT. 60% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 78.00MT. TO 80.41MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
STILL SLIGHTLY GOUGY OVER 78.0 TO 78.5
LIGHT GREEN FRAGMENTS IN DARK GREY SILICEOUS MATRIX

FROM 80.41MT. TO 81.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COARSE ASH TO FINE LAPILLI TUFF - FRAGS SHOW BEDDING
ONE QTZ/CARB VEIN (.75CM) NOTED. DISS. PY AS CUBES

FROM 81.00MT. TO 81.71MT. ths same as 80.41MT. to 81.00MT. except as noted

FROM 81.71MT. TO 84.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 005,
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
WELL FRACTURED & BROKEN UP.
MATERIAL FINES AWAY FROM
CONTACT WITH A DECREASE IN PHENOCRYST CONTENT

FROM 84.00MT. TO 87.00MT. the same as 81.71MT. to 84.00MT. except as noted

FROM 87.00MT. TO 90.00MT. the same as 81.71MT. to 84.00MT. except as noted

FROM 90.00MT. TO 91.45MT. the same as 81.71MT. to 84.00MT. except as noted

FROM 91.45MT. TO 92.20MT.
FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CONTACT SLICKENSIDED

FROM 92.20MT. TO 93.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 93.00MT. TO 96.00MT. the same as 92.20MT. to 93.00MT. except as noted

FROM 96.00MT. TO 99.00MT. the same as 92.20MT. to 93.00MT. except as noted

FROM 99.00MT. TO 99.75MT. the same as 92.20MT. to 93.00MT. except as noted

FROM 99.75MT. TO 102.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT at 100.28 MT.

FROM 100.28MT. TO 100.38MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 102.00MT. TO 102.41MT. the same as 99.75MT. to 102.00MT. except as noted

FROM 102.41MT. TO 103.04MT.
green grey MEDIUM SPHERUL. RHYOLITIC TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MEDIUM TO COARSE RHYOLITE ASH TUFF- SPHERULITIC

FROM 103.04MT. TO 104.20MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 045,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 104.20MT. TO 105.00MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
10% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
100 PC. recovered core in this interval
LIGHTER AND DARK GREY SEDIMENTS- EPICLASTIC OR EPIVOLCANICLASTIC
WELL BROKEN UP SO CONTACTS ARE NOT APPARENT

FROM 105.00MT. TO 108.00MT. the same as 104.20MT. to 105.00MT. except as noted

FROM 108.00MT. TO 109.63MT. the same as 104.20MT. to 105.00MT. except as noted

FROM 108.00MT. TO 108.70MT. 100% of this subinterval is the same as 104.20MT. to 105.00MT. except as noted

? QUARTZ FLOODING as framework crystals

FROM 109.63MT. TO 110.25MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COARSE ASH TUFF, SILICIFIED
FAIR AMOUNT OF PY AS PARTIAL REPLACEMENT OF FRAGMENTS

FROM 110.25MT. TO 111.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
/ ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 111.00MT. TO 113.50MT. the same as 110.25MT. to 111.00MT. except as noted

FINE ASH TUFF

FROM 113.50MT. TO 114.00MT.
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FELDSPAR PORPHYRY, BUT IS DACITIC

FROM 114.00MT. TO 114.94MT. the same as 113.50MT. to 114.00MT. except as noted

FROM 114.94MT. TO 115.95MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
2.5% QUARTZ VEINING as microveins
1% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MUCH AS ABOVE BUT WITHOUT PHENOCRYSTS AND IS SLIGHTLY COARSER
DYKE at 115.95 MT.

FROM 115.95MT. TO 117.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (straight) dip 060,
.3% QUARTZ VEINING as microveins
2.5% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 117.00MT. TO 118.67MT. the same as 115.95MT. to 117.00MT. except as noted

FROM 118.67MT. TO 120.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 025,
2.5% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
2.5% EPIDOTE as patches
100 PC. recovered core in this interval
MEDIUM TO COARSE ASH TUFF

FROM 119.50MT. TO 119.79MT. 100% of this subinterval is the same as 118.67MT. to 120.00MT. except as noted

Textures noted: BRECCIATED
/ CHLORITE as pervasive mineralization
50 PC. recovered core in this interval

FROM 120.00MT. TO 123.00MT. the same as 118.67MT. to 120.00MT. except as noted

FAULT at 120.43 MT.

FROM 120.43MT. TO 120.60MT. 50% of this subinterval is
GOUGE
Textures noted: BRECCIATED
Structures noted: CONTACT (irregular) ,

FROM 123.00MT. TO 126.00MT. the same as 118.67MT. to 120.00MT. except as noted

FROM 126.00MT. TO 126.70MT. the same as 118.67MT. to 120.00MT. except as noted

FROM 126.70MT. TO 129.00MT.
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ANDESITE TO DACITE PORPHYRY - WEAK TO MODERATELY MAGNETIC

FROM 129.00MT. TO 129.72MT. the same as 126.70MT. to 129.00MT. except as noted

FROM 129.72MT. TO 130.85MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ONE .5CM SEDIMENTARY BAND INDICATES TUFFS

FROM 130.85MT. TO 132.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
.03% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 132.00MT. TO 135.00MT. the same as 130.85MT. to 132.00MT. except as noted

FROM 135.00MT. TO 138.00MT. the same as 130.85MT. to 132.00MT. except as noted

FROM 138.00MT. TO 141.00MT. the same as 130.85MT. to 132.00MT. except as noted

FROM 141.00MT. TO 143.72MT. the same as 130.85MT. to 132.00MT. except as noted

DYKE at 143.72 MT.

FROM 143.72MT. TO 144.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval

FROM 144.00MT. TO 145.00MT. the same as 143.72MT. to 144.00MT. except as noted

FROM 145.00MT. TO 147.00MT.
green grey MEDIUM DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MEDIUM ASH TUFF

FROM 147.00MT. TO 150.00MT. the same as 145.00MT. to 147.00MT. except as noted

FROM 150.00MT. TO 152.71MT. the same as 145.00MT. to 147.00MT. except as noted

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	600	900	69760	0.03	-0.02	-1	
A001	900	1200	69761	0.02	-0.02	-1	
A001	1200	1500	69762	0.02	0.02	-1	
A001	1500	1800	69763	0.05	-0.02	-1	
A001	1800	2100	69764	0.03	-0.02	-1	
A001	2100	2400	69765	0.04	-0.02	-1	
A001	2400	2700	69766	0.06	-0.02	20	
A001	2700	3000	69767	0.06	-0.02	21	
A001	3000	3300	69768	0.13	0.02	68	
A001	3300	3600	69769	0.70	0.12	210	
A001	3600	3900	69770	0.27	0.13	84	
A001	3900	4200	69771	0.12	0.10	8	
A001	4200	4500	69772	0.12	0.11	30	
A001	4500	4800	69773	0.10	0.08	19	
A001	4800	5100	69774	0.09	0.08	8	
A001	5100	5400	69775	0.19	0.13	28	
A001	5400	5700	69776	0.18	0.05	29	
A001	5700	6000	69777	0.32	0.11	86	
A001	6000	6300	69778	0.16	0.05	33	
A001	6300	6600	69779	0.10	0.08	7	
A001	6600	6900	69780	0.09	0.05	3	
A001	6900	7200	69781	0.14	0.04	28	
A001	7200	7500	69782	0.15	0.05	28	
A001	7500	7800	69783	0.23	0.05	50	
A001	7800	8100	69784	0.11	0.06	13	
A001	8100	8400	69785	0.12	0.05	17	
A001	8400	8700	69786	0.08	0.04	3	
A001	8700	9000	69787	0.08	0.03	5	
A001	9000	9300	69788	0.13	0.07	11	
A001	9300	9600	69789	0.16	0.04	3	
A001	9600	9900	69790	0.10	0.04	5	
A001	9900	10200	69791	0.32	0.66	13	
A001	10200	10500	69792	0.59	0.55	54	
A001	10500	10800	69793	0.77	0.35	45	
A001	10800	11100	69794	1.52	0.71	44	
A001	11100	11400	69795	0.15	0.07	27	

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A001 11400 11700     69796  0.16  0.05    13
A001 11700 12000     69797  0.10  0.03     3
A001 12000 12300     69798  0.12  0.04    37
A001 12300 12600     69799  0.11  0.03    11
A001 12600 12900     69800 -0.02  0.17    -1
A001 12900 13200     69801 -0.02  0.16    16
A001 13200 13500     69802 -0.02  0.19    12
A001 13500 13800     69803 -0.02  0.16    25
A001 13800 14100     69804 -0.02  0.14    17
A001 14100 14400     69805 -0.02  0.16    16
A001 14400 14700     69806 -0.02  0.20    16
A001 14700 15000     69807  0.03  0.26    38
A001 15000 15270     6980B  0.02  0.20    34
/END
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HOLE APRDD007NGWL GRID NORTH 9752.00 GRID EAST10213.40
GRID AZIMUTH OF HOLE 235.00 VERTICAL ANGLE -75.00
TRUE AZIMUTH OF HOLE 235
TOTAL DEPTH OF HOLE: 148.43mt.
Logged by: MMM on (day/mo/yr)... MAY81

FROM 0.00MT. TO 3.00MT.
OVERBURDEN

FROM 3.00MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as disseminations and scattered crystals
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
COLLARED AS IN DDH6, ANDESITE TO DACITE TUFF.
WEATHERED MATERIAL ONLY WEAKLY MAGNETIC

FROM 6.00MT. TO 7.62MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 7.62MT. TO 8.37MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as disseminations and scattered crystals
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
1% EPIDOTE as patches
100 PC. recovered core in this interval
AMYGDALOIDAL ANDESITE, PROBABLE FLOW

FROM 8.37MT. TO 9.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 9.00MT. TO 12.00MT. the same as 8.37MT. to 9.00MT. except as noted

SHEAR at 11.20 MT.

FROM 11.20MT. TO 11.40MT. 100% of this subinterval is the same as 8.37MT. to 9.00MT. except as noted

5% ZEOLITE as microveins
2.5% MUSCOVITE as pervasive mineralization

FROM 12.00MT. TO 15.00MT. the same as 8.37MT. to 9.00MT. except as noted

FROM 15.00MT. TO 17.07MT. the same as 8.37MT. to 9.00MT. except as noted

FROM 17.07MT. TO 18.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: BANDING (irregular) dip 040
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.1% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval
POSSIBLE DACITE, SUBLINEAR BANDS OF AMYGDULES IMPART A VAGUE BANDING
3-5 MM AMYGDULES, CALCITE FILLED

FROM 18.00MT. TO 19.65MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 19.65MT. TO 20.02MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval

FROM 20.02MT. TO 21.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 070,
.1% QUARTZ VEINING as microveins
5% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. ain'l. w/ some vns, microvns, selv.& envel.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHEAR at 20.50 MT.

FROM 20.50MT. TO 21.00MT. 100% of this subinterval is the same as 20.02MT. to 21.00MT. except as noted

20% CARBONATES as microveins

FROM 21.00MT. TO 22.80MT. the same as 20.02MT. to 21.00MT. except as noted

Textures noted: BRECCIATED
SHEAR at 21.00 MT.

FROM 21.00MT. TO 21.75MT. 100% of this subinterval is the same as 20.02MT. to 21.00MT. except as noted

20% CARBONATES as microveins

FROM 22.80MT. TO 24.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
10% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHEAR at 23.00 MT.

FROM 23.00MT. TO 23.80MT. 100% of this subinterval is the same as 22.80MT. to 24.00MT. except as noted

40% CARBONATES as microveins
CORE IS BRECCIATED AND SHOT THROUGH WITH CARBONATE/ZEOLITE
FRACTURE FILLINGS
THE ABOVE 2 SHEARS WIND IN AND OUT OF THE CORE

FROM 24.00MT. TO 27.00MT. the same as 22.80MT. to 24.00MT. except as noted

.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 27.00MT. TO 27.40MT. the same as 22.80MT. to 24.00MT. except as noted

FROM 27.40MT. TO 30.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 040,
.1% QUARTZ VEINING as microvsins
.03% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
HIGHLY BRECCIATED RHYOLITE FRAGMENTAL
FRAGMENTS ARE MULTILITHIC - APLITIC, BANDED, SPHERULITIC, ETC
BRECCIA FILLING OF CARBONATE AND ZEOLITE

FROM 30.00MT. TO 33.00MT. the same as 27.40MT. to 30.00MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 27.40MT. to 30.00MT. except as noted

FROM 33.52MT. TO 36.00MT. 100% of this subinterval is the same as 27.40MT. to 30.00MT. except as noted

? QUARTZ FLOODING as framework crystals
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vms, microvns, selv, & envel. a some perv./dis. min'l.
AFTER 33.52 ROCK BECOMES MORE COMPETANT WITH SILICIFICATION
IN THE FRAGMENTAL

FROM 36.00MT. TO 38.80MT. the same as 27.40MT. to 30.00MT. except as noted

0% QUARTZ FLOODING as fresh primary rock
.03% CARBONATES as microveins
5% ZEOLITE as microveins

FROM 38.80MT. TO 39.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 050,
.01% QUARTZ VEINING as microveins
5% CARBONATES as veins and dalmationite
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYODACITE LAPILLI ASH TUFF

FROM 39.00MT. TO 42.00MT. the same as 38.80MT. to 39.00MT. except as noted

FROM 42.00MT. TO 45.00MT. the same as 38.80MT. to 39.00MT. except as noted

FROM 45.00MT. TO 48.00MT. the same as 38.80MT. to 39.00MT. except as noted

FROM 48.00MT. TO 48.33MT. the same as 38.80MT. to 39.00MT. except as noted

FROM 48.33MT. TO 51.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 51.00MT. TO 54.00MT. the same as 48.33MT. to 51.00MT. except as noted

FROM 54.00MT. TO 54.10MT. the same as 48.33MT. to 51.00MT. except as noted

FROM 54.10MT. TO 55.74MT.
green grey COARSE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% CHLORITE as pervasive mineralization
.03% EPIDOTE as microveins
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE
ROCK IS SOMEWHAT CHLORITIC AND SHEARED

FROM 54.95MT. TO 55.74MT. 100% of this subinterval is the same as 54.10MT. to 55.74MT. except as noted

10% CHLORITE as pervasive mineralization

FROM 55.74MT. TO 57.00MT.
green grey MEDIUM RHYODACITE FRAG. TUFF
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
.03% EPIDOTE as microveins
50 PC. recovered core in this interval
CONTAINS THE ODD RHYOLITE FRAGMENT

FROM 57.00MT. TO 57.85MT. the same as 55.74MT. to 57.00MT. except as noted

FROM 57.85MT. TO 59.72MT.
green grey MEDIUM DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% CARBONATES as patches
100 PC. recovered core in this interval
MEDIUM DACITE ASH TUFF - APPEARS WELDED
RUBBLY, PARTIALLY BRECCIATED SECTION. CONTACT OBSCURED BY RUBBLE

FROM 59.72MT. TO 60.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 60.00MT. TO 61.17MT. the same as 59.72MT. to 60.00MT. except as noted

FROM 61.17MT. TO 63.00MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 63.00MT. TO 63.90MT. the same as 61.17MT. to 63.00MT. except as noted

DYKE at 63.90 MT.

FROM 63.90MT. TO 64.75MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 64.75MT. TO 66.00MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 065,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ODD FRAGMENT HERE AND THERE

FROM 66.00MT. TO 69.00MT. the same as 64.75MT. to 66.00MT. except as noted
COARSE RHYOLITE TUFF
COARSE RHYOLITE ASH TUFF TO LAPILLI

FROM 69.00MT. TO 69.20MT. the same as 64.75MT. to 66.00MT. except as noted

FROM 69.20MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CONTACT NOT APPARENT, MAY BE A CONTINUATION OF THE SAME
MATERIAL (IE: ASH TO LAPILLI TO FRAGMENTAL)

FROM 72.00MT. TO 75.00MT. the same as 69.20MT. to 72.00MT. except as noted

FROM 72.64MT. TO 72.85MT. 100% of this subinterval is
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
SHORT SECTION OF RHYOLITE FS PORPHYRY

FROM 75.00MT. TO 76.38MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 015,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 76.38MT. TO 78.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MATERIAL HAS DARK GREY MATRIX WITH LIGHT GREEN FRAGMENTS
MATRIX IS SILICEOUS AND PYRITIC (POSSIBLE EPICLASTIC

FROM 78.00MT. TO 81.00MT. the same as 76.38MT. to 78.00MT. except as noted

FROM 81.00MT. TO 82.80MT. the same as 76.38MT. to 78.00MT. except as noted

FROM 82.80MT. TO 84.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 84.00MT. TO 87.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 010,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BRECCIATED LAPILLI TO FRAGMENTAL RHYOLITE
TWO DISTINCT SIZE POPULATIONS, LAPILLI AND FRAGMENTS
LARGE PIECES (>1.5CM) ARE BROKEN UP WITH THE LAPILLI SIZE BEING
WELL ROUNDED

FROM 87.00MT. TO 90.00MT. the same as 84.00MT. to 87.00MT. except as noted

FROM 90.00MT. TO 93.00MT. the same as 84.00MT. to 87.00MT. except as noted

FROM 93.00MT. TO 96.00MT. the same as 84.00MT. to 87.00MT. except as noted

.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 96.00MT. TO 99.00MT. the same as 84.00MT. to 87.00MT. except as noted

1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.

FROM 99.00MT. TO 102.00MT. the same as 84.00MT. to 87.00MT. except as noted

5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 102.00MT. TO 105.00MT. the same as 84.00MT. to 87.00MT. except as noted

FAULT at 103.68 MT.

FROM 103.68MT. TO 103.93MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 025, CONTACT (straight) dip 060
MATRIX IS SOFT

FROM 105.00MT. TO 108.00MT. the same as 84.00MT. to 87.00MT. except as noted

SOFT MATRIX AFTER 103.68 DOWN TO 111.92 AND IS PREFERENTIALLY
ALTERED OVER THE FRAGMENTS

FROM 108.00MT. TO 111.00MT. the same as 84.00MT. to 87.00MT. except as noted

R002 10800 10950
R002 10950 11100
SELECTED SAMPLES TAKEN FROM THESE SECTIONS FOR REASSAY TO TIE
DOWN GOLD AFFINITY. (CAN'T FIND THEM - BRP)
108.00 TO 109.50 - COMPETANT CORE WITH ALTERED MATRIX
109.50 TO 111.00 - HIGHLY ALTERED MATRIX TO THE POINT OF BEING
GOUGY

FROM 111.00MT. TO 111.92MT. the same as 84.00MT. to 87.00MT. except as noted

FROM 111.92MT. TO 114.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE FELDSPAR PORPHYRY

FROM 114.00MT. TO 114.89MT. the same as 111.92MT. to 114.00MT. except as noted

FROM 114.89MT. TO 115.76MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 015,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 115.76MT. TO 117.00MT.
dark grey COARSE SEDIMENTS
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SILICIFIED COARSE SEDIMENT. SILICEOUS FRAGMENTS IN A FINE MATRIX
EDGES OF FRAGMENTS ARE INDISTINCT AND POSSIBLY REACTED WITH
THE SILICIFICATION PROCESS

FROM 117.00MT. TO 119.16MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
2.5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
AT UPPER CONTACT, MINOR SEAM OF BLACK SOFT GRAPHITE

FROM 119.16MT. TO 119.26MT.
green grey FINE DACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 040,
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MINOR LAPILLI TUFF SECTION. SOME FRAGMENTS REPLACED WITH PYRITE

FROM 119.26MT. TO 120.00MT.
med. dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 040,
100 PC. recovered core in this interval

FROM 120.00MT. TO 120.20MT.
med. dark grey COARSE SEDIMENTS
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 120.20MT. TO 121.85MT.
med. dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 121.85MT. TO 123.00MT.
green grey MEDIUM SEDIMENTS
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
THIS ACTUALLY APPEARS TO BE A LAPILLI TUFF OF DACITIC
COMPOSITION WITH THE ODD MINOR VARVED BAND, QUARTZ VEIN, AND
PATCHES OF FINE DARK SILICEOUS SEDIMENT

FROM 123.00MT. TO 124.07MT. the same as 121.85MT. to 123.00MT. except as noted

FROM 123.41MT. TO 123.65MT. 100% of this subinterval is
very dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ as veins
UPPER CONTACT BRECCIATED, LOWER CONTACT NOT APPARENT
SOME FINE LAYERING (VARVED)

FROM 124.07MT. TO 126.00MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) , BANDING (irregular)
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
VERY FINELY DISSEMINATED PYRITE

FROM 125.00MT. TO 125.50MT. 100% of this subinterval is
green grey MEDIUM SEDIMENTS
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

FROM 126.00MT. TO 128.80MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SOME OCCASIONAL LAPILLI FRAGMENTS - APPEARS TO FINE-UP (SERIES)
SEDIMENTS ABOVE THE CONTACT AT 126.00 METERS ARE VARVED
DACITE TUFF FINES UP TO CONTACT AT 126.00
DYKE at 128.80 MT.

FROM 128.80MT. TO 129.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval

FROM 129.00MT. TO 129.70MT. the same as 128.80MT. to 129.00MT. except as noted

FROM 129.70MT. TO 132.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
OCCAISIONAL LAPILLI SIZE FRAGMENTS, A COARSE ASH

FROM 132.00MT. TO 133.55MT. the same as 129.70MT. to 132.00MT. except as noted

FROM 133.55MT. TO 135.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
NUMBER OF FRAGMENTS ARE REPLACED BY PYRITE

FROM 135.00MT. TO 135.36MT. the same as 133.55MT. to 135.00MT. except as noted

FROM 135.36MT. TO 136.07MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% CHLORITE as veins
100 PC. recovered core in this interval

FROM 136.07MT. TO 137.56MT.
green grey MEDIUM DACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 137.56MT. TO 138.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% CHLORITE as pervasive mineralization
2.5% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 138.00MT. TO 141.00MT. the same as 137.56MT. to 138.00MT. except as noted

FROM 141.00MT. TO 144.00MT. the same as 137.56MT. to 138.00MT. except as noted

FROM 144.00MT. TO 147.00MT. the same as 137.56MT. to 138.00MT. except as noted

FROM 147.00MT. TO 148.43MT. the same as 137.56MT. to 138.00MT. except as noted

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	69809	0.17	-0.02	1	
A001	600	900	69810	0.09	-0.02	-1	
A001	900	1200	69811	0.10	-0.02	-1	
A001	1200	1500	69812	0.09	-0.02	1	
A001	1500	1800	69813	0.03	-0.02	4	
A001	1800	2100	69814	0.07	-0.02	7	
A001	2100	2400	69815	0.18	0.08	36	
A001	2400	2700	69816	0.07	-0.02	10	
A001	2700	3000	69817	0.05	0.04	26	
A001	3000	3300	69818	0.04	0.03	56	
A001	3300	3600	69819	0.09	0.05	20	
A001	3600	3900	69820	0.10	-0.02	14	
A001	3900	4200	69821	0.07	-0.02	30	
A001	4200	4500	69822	0.22	-0.02	72	
A001	4500	4800	69823	0.12	-0.02	36	
A001	4800	5100	69824	0.04	-0.02	20	
A001	5100	5400	69825	0.03	-0.02	12	
A001	5400	5700	69826	0.15	0.02	34	
A001	5700	6000	69827	0.08	-0.02	23	
A001	6000	6300	69828	0.09	-0.02	33	
A001	6300	6600	69829	0.05	-0.02	9	
A001	6600	6900	69830	0.04	0.02	14	
A001	6900	7200	69831	0.04	-0.02	15	
A001	7200	7500	69832	0.07	0.02	25	
A001	7500	7800	69833	0.07	0.03	40	
A001	7800	8100	69834	0.02	-0.02	14	
A001	8100	8400	69835	0.03	0.03	9	
A001	8400	8700	69836	0.07	0.02	18	
A001	8700	9000	69837	0.06	-0.02	24	
A001	9000	9300	69838	0.06	0.03	20	
A001	9300	9600	69839	0.14	0.05	25	

A001	9600	9900	69840	0.92	0.22	43
A001	9900	10200	69841	1.50	1.43	96
A001	10200	10500	69842	2.26	2.98	48
A001	10500	10800	69843	1.29	2.81	104
A001	10800	11100	69844	1.30	4.52	104
A001	11100	11400	69845	0.42	0.27	40
A001	11400	11700	69846	1.79	1.17	41
A001	11700	12000	69847	1.73	1.30	170
A001	12000	12300	69848	1.05	0.44	43
A001	12300	12600	69849	2.14	0.94	28
A001	12600	12900	69850	0.87	0.12	37
A001	12900	13200	69851	0.41	0.05	22
A001	13200	13500	69852	1.12	0.40	30
A001	13500	13800	69853	0.22	0.05	28
A001	13800	14100	69854	0.12	0.02	12
A001	14100	14400	69858	0.15	0.02	22
A001	14400	14700	69856	0.07	0.02	8
A001	14700	14843	69857	0.05	-0.02	-1

END OF HOLE at 148.43

HOLE APRDDOOBNGWL GRID NORTH 9752.22 GRID EAST10213.47
GRID AZIMUTH OF HOLE 0.00 VERTICAL ANGLE -90.00
TRUE AZIMUTH OF HOLE 0
TOTAL DEPTH OF HOLE: 154.25mt.
 Logged by: MMW on (day/mo/yr)... MAY81

FROM 0.00MT. TO 3.00MT.
OVERBURDEN

FROM 3.00MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
10% GALENA as laminations, bedded
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
AS IN PREVIOUS HOLES, WEATHERED TOP ZONE OF ANDESITE TO DACITE
TUFFS. WEATHERED MATERIAL IS WEAKLY MAGNETIC WITH THE FRESHER
MATERIAL BEING MODERATELY MAGNETIC
SHEAR at 5.60 MT.

FROM 5.60MT. TO 6.00MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

SLICKENSIDED SHEAR

FROM 6.00MT. TO 9.00MT. the same as 3.00MT. to 6.00MT. except as noted

at 7.32 MT.

FROM 7.32MT. TO 7.92MT. 100% of this subinterval is
MISSING CORE

FROM 9.00MT. TO 12.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 3.00MT. to 6.00MT. except as noted
green grey
100 PC. recovered core in this interval

FROM 15.00MT. TO 18.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 18.00MT. TO 19.77MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 19.77MT. TO 20.65MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% CARBONATES as amygdaloids, cavity fillings
100 PC. recovered core in this interval

FROM 20.65MT. TO 21.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 21.00MT. TO 22.25MT. the same as 20.65MT. to 21.00MT. except as noted

FROM 22.25MT. TO 24.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
5% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BRECCIATED CONTACT WITH CARBONATE FILLING

FROM 24.00MT. TO 27.00MT. the same as 22.25MT. to 24.00MT. except as noted

FROM 27.00MT. TO 30.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 30.00MT. TO 33.00MT. the same as 27.00MT. to 30.00MT. except as noted

FROM 33.00MT. TO 35.50MT. the same as 27.00MT. to 30.00MT. except as noted

FROM 35.50MT. TO 36.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
2.5% CARBONATES as breccia fillings
100 PC. recovered core in this interval
MOSTLY JADE GREEN FRAGMENTS WITH A NUMBER OF BANDED SPHERULITIC PIECES

FROM 36.00MT. TO 39.00MT. the same as 35.50MT. to 36.00MT. except as noted

FROM 39.00MT. TO 42.00MT. the same as 35.50MT. to 36.00MT. except as noted

FRAGMENTS WITH A GREATER VARIATION BUT REMAIN RHYOLITIC

FROM 42.00MT. TO 45.00MT. the same as 35.50MT. to 36.00MT. except as noted

SOME FRAGMENTS HIGHLY SPHERULITIC AND BANDED

FROM 45.00MT. TO 48.00MT. the same as 35.50MT. to 36.00MT. except as noted

TRENDING TOWARDS A TUFF BRECCIA, BUT STILL DIFFERENT FRAG TYPES

FROM 48.00MT. TO 51.00MT. the same as 35.50MT. to 36.00MT. except as noted

FRAGMENTS STILL VARIED

FROM 51.00MT. TO 54.00MT. the same as 35.50MT. to 36.00MT. except as noted

FROM 54.00MT. TO 57.00MT. the same as 35.50MT. to 36.00MT. except as noted

FROM 57.00MT. TO 60.00MT. thm same as 35.50MT. to 36.00MT. except es noted

FROM 60.00MT. TO 61.45MT. the same as 35.50MT. to 36.00MT. except as noted

SLIGHT CHANGE FOR THIS SECTION TO MORE ROUNDED AND LAPILLI SIZE FRAGMENTS
SHEAR at 61.20 MT.

FROM 61.20MT. TO 61.45MT. 100% of this subinterval is
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 010,
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization

FROM 61.45MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
.1% EPIDOTE as patches
100 PC. recovered core in this interval
THIS HAS A SOFTER MATRIX AND MORE ROUNDED FRAGMENTS THAN THE
ABOVE RHYOLITE

FROM 63.00MT. TO 66.00MT. the same as 61.45MT. to 63.00MT. except as noted

FROM 66.00MT. TO 68.50MT. the same as 61.45MT. to 63.00MT. except as noted

FROM 68.50MT. TO 69.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as patches
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE FELDSPAR PORPHYRY, PHENOCRYSTS OF FELDSPAR-RECTANGULAR
TO SUB-RECTANGULAR

FROM 69.00MT. TO 70.27MT. the same as 68.50MT. to 69.00MT. except as noted

FROM 70.27MT. TO 70.95MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 040,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.3% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 70.95MT. TO 72.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
.3% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 72.00MT. TO 74.43MT. the same as 70.95MT. to 72.00MT. except as noted

SOME FRAGMENTS REPLACED BY PYRITE. LARGE FRAGMENTS (>2.5CM) ARE
RHYOLITIC AND VARIED

FROM 74.43MT. TO 75.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as patches
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
POSSIBLE COARSE ASH TUFF

FROM 75.00MT. TO 75.53MT. the same as 74.43MT. to 75.00MT. except as noted

FROM 75.53MT. TO 78.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
2.5% CARBONATES as veins and dalmationite
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
DYKE at 78.00 MT.

FROM 78.00MT. TO 79.55MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as veins and dalmationite
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 79.55MT. TO 81.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as veins and dalmationite
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 81.00MT. TO 84.00MT. the same as 79.55MT. to 81.00MT. except as noted

SECTION CONTAINS ONE LARGE (20 CM) FRAGMENT OF BANDED SPHERULITI
RHYOLITE

FROM 84.00MT. TO 85.40MT. the same as 79.55MT. to 81.00MT. except as noted

AS ABOVE BUT WITH LARGER FRAGMENTS AND INCREASED QTZ/CARB VEINS
PROBABLY RELATES TO FOLLOWING BRECCIA ZONE

FROM 85.40MT. TO 87.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
5% ZEOLITE as breccia fillings
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or intrfrag. fill) as [redacted] FLOODING
.03% CHLORITE as pervasive mineralization
FAULT at 85.65 MT.

FROM 85.65MT. TO 85.90MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
ALTERATION ABOUT PYRITE VEINLETS (BLEACHING)

FROM 87.00MT. TO 87.30MT. the same as 85.40MT. to 87.00MT. except as noted

FROM 87.30MT. TO 90.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
10% ZEOLITE as perv./dis. vns, micro vns, selv., brecc., stock., sheet.
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 90.00MT. TO 90.30MT. the same as 87.30MT. to 90.00MT. except as noted

FROM 90.30MT. TO 93.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 020,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
5% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT at 90.70 MT.

FROM 90.70MT. TO 90.90MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 93.00MT. TO 96.00MT. the same as 90.30MT. to 93.00MT. except as noted

FAULT at 95.60 MT.

FROM 95.60MT. TO 96.00MT. 30% of this subinterval is the same as 90.30MT. to 93.00MT. except as noted
GOUGE
CHLORITIC CLAY GOUGE

FROM 94.50MT. TO 95.65MT. 100% of this subinterval is the same as 90.30MT. to 93.00MT. except as noted
green grey
? QUARTZ FLOODING as framework crystals
THIS SECTION IS DARKER AND QZ-FLOODED WITH MORE LAPILLI SIZED
FRAGMENTS

FROM 96.00MT. TO 96.80MT. the same as 90.30MT. to 93.00MT. except as noted

FROM 96.50MT. TO 96.80MT. 100% of this subinterval is the same as 90.30MT. to 93.00MT. except as noted

20% ZEOLITE as breccia fillings

FROM 96.80MT. TO 97.75MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 040,
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
2.5% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CONTACT IS SLICKENSIDED

FROM 97.75MT. TO 99.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
2.5% QUARTZ VEINING as microveins

.01% CARBONATES as microveins
.01% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval
POSSIBLE FLOW MATERIAL AS THERE INDISTINCT VOIDS AND PATCHES
WITH A VAGUE ALIGNMENT
BLACK SILICEOUS MICROVEINS WITH ASSOCIATED PYRITE AND ALTERATION
SELVAGES

FROM 99.00MT. TO 102.00MT. the same as 97.75MT. to 99.00MT. except as noted

FROM 102.00MT. TO 104.45MT. the same as 97.75MT. to 99.00MT. except as noted

FROM 104.45MT. TO 105.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.3% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval

FROM 105.00MT. TO 105.55MT. the same as 104.45MT. to 105.00MT. except as noted

FROM 105.55MT. TO 106.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 065,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval

FROM 106.00MT. TO 108.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 015,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.3% CHLORITE as pervasive mineralization

100 PC. recovered core in this interval
GOUGY RHYOLITE FRAGMENTAL
FAULT at 107.00 MT.

FROM 107.00MT. TO 107.65MT. 20% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 108.00MT. TO 111.00MT. the same as 106.00MT. to 108.00MT. except as noted

FROM 108.00MT. TO 111.00MT. 10% of this subinterval is
GOUGE
INTERMITTENT GOUGE THROUGH SECTION

FROM 111.00MT. TO 114.00MT. the same as 106.00MT. to 108.00MT. except as noted

DECREASED GOUGE MATERIAL

FROM 114.00MT. TO 117.00MT. the same as 106.00MT. to 108.00MT. except as noted

FROM 117.00MT. TO 120.00MT. the same as 106.00MT. to 108.00MT. except as noted

FROM 120.00MT. TO 123.00MT. the same as 106.00MT. to 108.00MT. except as noted

1% QUARTZ VEINING as microveins
SOME LARGE FRAGMENTS UP TO 50 CM OF BANDED SPHERULITIC RHYOLITE

FROM 123.00MT. TO 126.00MT. the same as 106.00MT. to 108.00MT. except as noted

SOME SLIGHT GOUGY MATERIAL BUT CORE IS VERY COMPETANT

FROM 126.00MT. TO 129.00MT. the same as 106.00MT. to 108.00MT. except as noted

FRAGMENTS ARE NOT SO OBVIOUS IN THE ABOVE THREE SECTIONS AS
THERE ARE SOME VERY LARGE ONES AND OTHERS APPEAR TO HAVE MUCH
THE SAME TEXTURES.
SOME GOUGY MATERIAL TOWARDS 129.00 METERS

FROM 129.00MT. TO 132.00MT. the same as 106.00MT. to 108.00MT. except as noted

FROM 132.00MT. TO 133.05MT. the same as 106.00MT. to 108.00MT. except as noted

2.5% PYRITE DISSEM. &/OR VEINING as breccia fillings

FROM 132.28MT. TO 133.05MT. 20% of this subinterval is
GOUGE
GOUGY SECTION

FROM 132.38MT. TO 132.41MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 030,

FROM 133.05MT. TO 133.64MT.
med. dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 060,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
VERY FINELY DISSEMINATED PYRITE

FROM 133.64MT. TO 133.90MT.
med. dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 060,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization

FROM 133.90MT. TO 134.25MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 050,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 134.25MT. TO 135.00MT.
med. dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 000,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 135.00MT. TO 138.00MT. the same as 134.25MT. to 135.00MT. except as noted

FROM 138.00MT. TO 140.10MT. the same as 134.25MT. to 135.00MT. except as noted

FAULT at 138.00 MT.

FROM 138.00MT. TO 138.20MT. 70% of this subinterval is
GOUGE

FROM 140.10MT. TO 141.00MT.
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 141.00MT. TO 142.44MT. the same as 140.10MT. to 141.00MT. except as noted

IRREGULAR CONTACT BETWEEN PORPHYRY AND FRAGMENTAL FROM 141.00
TO 142.44

FROM 142.44MT. TO 144.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

FROM 144.00MT. TO 147.00MT. the same as 142.44MT. to 144.00MT. except as noted

FROM 147.00MT. TO 149.30MT. the same as 142.44MT. to 144.00MT. except as noted

FROM 149.30MT. TO 150.00MT.
medium grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
2.5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
PARTIALLY BRECCIATED/DEFORMED RHYOLITE TUFF

FROM 150.00MT. TO 153.00MT. the same as 149.30MT. to 150.00MT. except as noted

FROM 153.00MT. TO 154.25MT. the same as 149.30MT. to 150.00MT. except as noted

A001

AUMM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	69858	0.07	0.04	-1	
A001	600	900	69859	0.03	-0.02	2	
A001	900	1200	69860	0.03	-0.02	2	
A001	1200	1500	69861	0.03	-0.02	2	

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A001  1500  1800     69862  0.03 -0.02     3
A001  1800  2100     69863  0.03 -0.02    -1
A001  2100  2400     69864  0.04 -0.02     5
A001  2400  2700     69865  0.06 -0.02     8
A001  2700  3000     69866  0.05 -0.02     7
A001  3000  3300     69867  0.08 -0.02     6
A001  3300  3600     69868  0.07 -0.02    13
A001  3600  3900     69869  0.07  0.03    23
A001  3900  4200     69870  0.06  0.04    31
A001  4200  4500     69871  0.08  0.04    30
A001  4500  4800     69872  0.09  0.04    34
A001  4800  5100     69873  0.09 -0.02    13
A001  5100  5400     69874  0.05 -0.02    14
A001  5400  5700     69875  0.06  0.02     8
A001  5700  6000     69876  0.03  0.02    12
A001  6000  6300     69877  0.08  0.02    25
A001  6300  6600     69878  0.07 -0.02    20
A001  6600  6900     69879 -0.02 -0.02     2
A001  6900  7200     69880  0.28 -0.02    24
A001  7200  7500     69881  0.36 -0.02    21
A001  7500  7800     69892  0.27  0.02    46
A001  7800  8100     69883  0.13  0.06    37
A001  8100  8400     69884  0.16  0.03    44
A001  8400  8700     69885  0.12  0.10    43
A001  8700  9000     69896  0.14  0.15    34
A001  9000  9300     69887  0.11  0.09    36
A001  9300  9600     69888  0.10  0.06    48
A001  9600  9900     69889  0.10  0.04    48
A001  9900 10200     69890  0.15  0.11    42
A001 10200 10500     69891  0.15  0.07    30
A001 10500 10800     69892  0.24  0.02    25
A001 10800 11100     69893  1.79  2.87    88
A001 11100 11400     69894  0.94  0.46    68
A001 11400 11700     69895  0.26  0.14    34
A001 11700 12000     69896  0.73  0.76   130
A001 12000 12300     69897  0.23  0.14    28
A001 12300 12600     69898  0.55  2.97    44
A001 12600 12900     69899  0.44  0.41    50
A001 12900 13200     69900  2.02  0.80    92
A001 13200 13500     69901     7  4.32   100
A001 13500 13800     69902  0.62  0.09    80
A001 13800 14100     69903  0.42  0.36    42
A001 14100 14400     69904  0.34  0.20    47
A001 14400 14700     69905  0.29  0.15    39
A001 14700 15000     69906  0.42  1.02    48
A001 15000 15300     69907  0.60  1.30    64
A001 15300 15422     69908  0.71  0.56    82
/END
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HOLE APRDD009NQ GRID NORTH 9840.47 GRID EAST10171.61
GRID AZIMUTH OF HOLE 235.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 235
TOTAL DEPTH OF HOLE: 137.16mt.
  Logged by: MMM on (day/mo/yr)...20MAY81

FROM 0.00MT. TO 3.50MT.
OVERBURDEN

FROM 3.50MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
AS IN OTHER HOLES - ANDESITE/DACITE
SOME SMALL WHITISH LATHS OF PLAGIOCLASE
SOME VUGGY ZEOLITE FILLED FRACTURES
AS BELOW - WEATHERED PORTIONS SHOW REDUCED MAGNETIC SUSCEPTABILI
TY
THE SECTION 3.50 TO 2630 WAS LOGGED AFTER SPLITTING AND AFTER
THE REST OF THE HOLE - THEREFORE SEE COMMENTS BELOW

FROM 6.00MT. TO 9.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 9.00MT. TO 12.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 15.00MT. TO 18.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 18.00MT. TO 21.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 3.50MT. to 6.00MT. except as noted

FROM 24.00MT. TO 26.30MT. the same as 3.50MT. to 6.00MT. except as noted

APPARENTLY TWO ROCK TYPES BUT 1 IS A PROBABLE WEATHERED VERSION
OF THE OTHER.
POSSIBLE ANDESITE TO DACITE AS IT APPEARS THERE ARE DISRUPTED
BLUE QUARTZ EYES (IE: FREE QUARTZ)

FROM 26.30MT. TO 27.00MT.
dark grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 27.00MT. TO 28.04MT.
dark grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
60 PC. recovered core in this interval
THIS IS A WEATHERED VERSION OF THE SAME ROCK AS ABOVE AND WILL
BE INCLUDED WITH A DESCRIPTION OF SAME BELOW
PYRITE IS VERY FINELY DISSEMINATED

FROM 28.04MT. TO 30.00MT. the same as 27.00MT. to 28.04MT. except as noted
dark grey
100 PC. recovered core in this interval
OCCASIONAL 1CM ZEOLITE VEIN

FROM 30.00MT. TO 33.00MT. the same as 27.00MT. to 28.04MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 27.00MT. to 28.04MT. except as noted

FROM 36.00MT. TO 39.00MT. the same as 27.00MT. to 28.04MT. except as noted

Textures noted: , EQUIGRANULAR

FROM 39.00MT. TO 41.22MT. the same as 27.00MT. to 28.04MT. except as noted

FROM 41.22MT. TO 42.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHOT THROUGH WITH FINE QTZ MICROVEINS, THICKER VEINS OF ZEOLITE
AND TRACE CARBONATE
CORE IS QUITE SOFT AND CHEWED UP WITH NUMEROUS MICROFAULTS.

FROM 42.00MT. TO 42.80MT. the same as 41.22MT. to 42.00MT. except as noted

FROM 42.80MT. TO 45.00MT.
dark grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
AS DOWN TO 41.22 BUT SOMEWHAT BRECCIATED AND WITH GREATER AMOUNT OF ZEOLITE

FROM 45.00MT. TO 48.00MT. the same as 42.80MT. to 45.00MT. except as noted

FROM 48.00MT. TO 51.00MT. the same as 42.80MT. to 45.00MT. except as noted

FROM 49.07MT. TO 49.77MT. 100% of this subinterval is the same as 42.80MT. to 45.00MT. except as noted

50% ZEOLITE as veins
LARGE ZEOLITE VEIN (2CM) RUNNING LENGTH OF THE REPEAT INTERVAL

FROM 51.00MT. TO 51.65MT. the same as 42.80MT. to 45.00MT. except as noted

FROM 51.65MT. TO 54.00MT.
dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.1% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
5% ZEOLITE as microveins
100 PC. recovered core in this interval
CORE WEAKLY TO NON-MAGNETIC, MARKED INCREASE IN CARBONATE CONTENT, PRESENCE OF SMALL (.1-.3MM) SPHERULITES

FROM 52.12MT. TO 52.52MT. 100% of this subinterval is the same as 51.65MT. to 54.00MT. except as noted

50% ZEOLITE as veins
ZEOLITE VEIN ALONG CORE

FROM 54.00MT. TO 56.10MT. the same as 51.65MT. to 54.00MT. except as noted

FAULT at 56.00 MT.

FROM 56.00MT. TO 56.10MT. 100% of this subinterval is
GOUGE

FROM 56.10MT. TO 57.00MT.
green grey COARSE SPHERUL. RHYOLITIC TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as veins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SPHERULITIC RHYOLITE TUFF
FAULT at 56.40 MT.

FROM 56.40MT. TO 57.00MT. 100% of this subinterval is
GOUGE
GOUGY RHYOLITE FRAGMENTAL- SOFT MATRIX (ALTERED GLASS) WITH
RESISTANT FRAGMENTS

FROM 57.00MT. TO 57.30MT. the same as 56.10MT. to 57.00MT. except as noted

FROM 57.30MT. TO 58.52MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% QUARTZ FLOODING as framework crystals
2.5% CARBONATES as microveins
.3% ZEOLITE as breccia fillings
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BRECCIATED RHYOLITE TUFF
SIMILAR TO MATERIAL AT 97 METERS IN DDH81-8
DYKE at 58.52 MT.

FROM 58.52MT. TO 59.37MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BLEBBY DISSEMINATED PYRITE
(SEDF)?

FROM 59.37MT. TO 60.00MT.
very dark grey FINE RHYOLITE TUFF
2.5% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
20% PYRITE DISSEM. &/OR VEINING as macroveins, and veins
100 PC. recovered core in this interval
SILICEOUS SEDIMENT - CARBON CHERT WITH LIGHT RHYOLITIC FRAGMENTS
5940 5940 SPECIMEN TAKEN AT 59.40 METERS
SAMPLE TO SUE CAMPBELL

FROM 60.00MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 065,
2.5% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE FRAGMENTAL - SOFT CHLORITIC MATRIX WITH HEAVY FILLINGS
OF PYRITE

FROM 63.00MT. TO 63.24MT. the same as 60.00MT. to 63.00MT. except as noted

DYKE at 63.24 MT.

FROM 63.24MT. TO 64.20MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 64.20MT. TO 66.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RHYOLITE FRAGMENTS WITH MULTILITHIC LAPILLI SIZED FRAGMENTS
PYRITE RIMS ON THE RHYOLITE FRAGMENTS
RHYOLITE FRAGMENTS UP TO 10 CM

FROM 66.00MT. TO 66.70MT. the same as 64.20MT. to 66.00MT. except as noted

FROM 66.70MT. TO 68.80MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT at 67.05 MT.

FROM 67.05MT. TO 67.25MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 005,

FROM 68.80MT. TO 69.00MT.
med. light grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
.01% QUARTZ VEINING as microveins
5% QUARTZ FLOODING as framework crystals
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
LIGHT GREY SPHERULITIC RHYOLITE (BRECCIATED)

FROM 69.00MT. TO 70.20MT. the same as 68.80MT. to 69.00MT. except as noted

FROM 70.20MT. TO 70.35MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 70.35MT. TO 71.35MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
MINOR BRECCIATION AROUND GOUGE
FAULT at 71.30 MT.

FROM 71.30MT. TO 71.35MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 025,

FROM 71.35MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
5% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHEARED CHLORITIC RHYOLITE FRAGMENTAL

FROM 72.00MT. TO 75.00MT. the same as 71.35MT. to 72.00MT. except as noted

FROM 75.00MT. TO 78.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 78.00MT. TO 78.32MT. the same as 75.00MT. to 78.00MT. except as noted

FROM 78.32MT. TO 81.00MT.
green grey MEDIUM RHYODAICTE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FAULT at 80.62 MT.

FROM 80.62MT. TO 81.00MT. 100% of this subinterval is
GOUGE

FROM 81.00MT. TO 82.10MT. the same as 78.32MT. to 81.00MT. except as noted

FROM 82.10MT. TO 84.00MT.
green grey FINE DACITE LAPILLI TUFF
.01% QUARTZ VEINING as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% CHLORITE as patches
100 PC. recovered core in this interval
5MM DARK GREEN LAPILLI FRAGMENTS IN A LIGHT GREEN MATRIX
MATRIX IS SOFT WITH CHLORITIC FRAGMENTS

FROM 84.00MT. TO 86.90MT.
green grey MEDIUM RHYODACITE FRAG. TUFF
Textures noted: BRECCIATED
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
90 PC. recovered core in this interval
50% SOFT MATRIX IN SECTION - WELL ALTERED/CRUSHED
FAULT at 86.50 MT.

FROM 86.50MT. TO 86.90MT. 100% of this subinterval is
GOUGE

FROM 86.90MT. TO 87.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 87.00MT. TO 87.23MT. the same as 86.90MT. to 87.00MT. except as noted

FROM 87.23MT. TO 90.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
RUBBLY & CHEWED UP CORE

FROM 90.00MT. TO 93.00MT. the same as 87.23MT. to 90.00MT. except as noted

FROM 93.00MT. TO 94.22MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
2.5% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
.1% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 94.22MT. TO 96.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
/ PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
HEAVY PYRITE AS FINE DISSEMINATIONS, BRECCIA FILLINGS AND
FRACTURE FILLINGS (GOLD POTENTIAL)

FROM 96.00MT. TO 97.50MT. the same as 94.22MT. to 96.00MT. except as noted

DYKE at 97.50 MT.

FROM 97.50MT. TO 98.80MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
DISSEMINATED PYRITE AS BLEBS
FINES AT CONTACTS

FROM 98.80MT. TO 99.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 99.00MT. TO 99.65MT. the same as 98.80MT. to 99.00MT. except as noted

FROM 99.65MT. TO 100.95MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
2.5% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
.1% EPIDOTE as patches
100 PC. recovered core in this interval
SAME AS 93.00 TO 94.22

FROM 100.95MT. TO 102.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
2.5% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 102.00MT. TO 105.00MT.
green grey FINE DACITE LAPILLI TUFF
1% QUARTZ VEINING as veins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
.1% EPIDOTE as patches
100 PC. recovered core in this interval
QUARTZ VEINS TO 1CM - BARREN BUT WITH PY SELVAGES

FROM 105.00MT. TO 106.50MT. the same as 102.00MT. to 105.00MT. except as noted

FROM 105.05MT. TO 105.60MT. this subinterval is the same as 102.00MT. to 105.00MT. except as noted

Textures noted: BRECCIATED
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% QUARTZ (brx. or interfrag. fill) as breccia fillings

FROM 106.50MT. TO 106.68MT.
dark grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
.03% QUARTZ VEINING as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
HARD ROCK - CARBON CHERT (?)
QTZ VEINS AS HAIRLINE FRACTURE FILLINGS

FROM 106.68MT. TO 108.00MT.
green grey FINE DACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% EPIDOTE as microveins
100 PC. recovered core in this interval
PY AS BLEBBY DISSEMINATIONS
ALT RIMS ON SHARDS (NOT CALCITE -AS PER S.C., 80-5-113M)

FROM 108.00MT. TO 111.00MT. the same as 106.68MT. to 108.00MT. except as noted

.03% ZEOLITE as microveins
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 111.00MT. TO 114.00MT. the same as 106.68MT. to 108.00MT. except as noted

1% ZEOLITE as microveins
.1% CHLORITE as pervasive mineralization

FROM 114.00MT. TO 115.76MT. the same as 106.68MT. to 108.00MT. except as noted

FROM 115.76MT. TO 117.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
115.76 TO 132.35 -DACITE TUFFS WITH SOME SHORT MINOR LAPILLI
SECTIONS

FROM 117.00MT. TO 120.00MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 120.00MT. TO 123.00MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 123.00MT. TO 126.00MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 126.00MT. TO 129.00MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 129.00MT. TO 132.00MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 132.00MT. TO 132.35MT. the same as 115.76MT. to 117.00MT. except as noted

FROM 132.35MT. TO 132.98MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ANDESITE/DACITE DYKE, WEAKLY MAGNETIC

FROM 132.98MT. TO 135.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
BLEBBY DISSEMINATED PYRITE

FROM 135.00MT. TO 137.16MT. the same as 132.98MT. to 135.00MT. except as noted

FROM 136.70MT. TO 137.16MT. 100% of this subinterval is the same as 132.98MT. to 135.00MT. except as noted

5% QUARTZ VEINING as microveins
50% ZEOLITE as microveins
LAST SECTION APPEARS TO BE A FLOODED SHEAR ZONE

A001

AUHM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	350	600	69946	0.06	0.03	1	
A001	600	900	69947	-0.02	0.06	-1	
A001	900	1200	69948	0.04	-0.02	-1	
A001	1200	1500	69949	0.05	-0.02	-1	
A001	1500	1800	69950	0.09	-0.02	6	
A001	1800	2100	69951	0.12	-0.02	-1	
A001	2100	2400	69952	0.02	0.03	-1	
A001	2400	2700	69953	0.04	0.03	-1	
A001	2700	3000	69909	0.05	0.04	2	
A001	3000	3300	69910	0.05	0.05	-1	
A001	3300	3600	69911	0.07	0.07	14	
A001	3600	3900	69912	0.16	0.06	2	
A001	3900	4200	69913	0.06	0.06	4	
A001	4200	4500	69914	0.08	0.05	10	
A001	4500	4800	69915	0.06	0.04	6	
A001	4800	5100	69916	0.10	0.11	12	
A001	5100	5400	69917	0.11	0.02	28	
A001	5400	5700	69918	0.09	0.07	26	
A001	5700	6000	69919	0.28	0.24	28	
A001	6000	6300	69920	1.05	0.28	220	
A001	6300	6600	69921	0.31	0.23	46	
A001	6600	6900	69922	0.44	0.15	72	
A001	6900	7200	69923	0.39	0.28	130	
A001	7200	7500	69924	0.45	0.46	42	
A001	7500	7800	69925	0.26	0.18	44	
A001	7800	8100	69926	1.69	0.66	76	
A001	8100	8400	69927	0.76	0.60	38	
A001	8400	8700	69928	0.52	0.21	38	
A001	8700	9000	69929	0.45	0.14	36	
A001	9000	9300	69930	0.71	0.12	22	
A001	9300	9600	69931	0.21	0.09	8	
A001	9600	9900	69932	0.14	0.11	24	
A001	9900	10200	69933	0.11	0.11	25	

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A001 10200 10500     69934  0.21  0.13    28
A001 10500 10800     69935  0.26  0.07    15
A001 10800 11100     69936  0.19  0.06    13
A001 11100 11400     69937  0.21  0.12    11
A001 11400 11700     69938  0.14  0.05    13
A001 11700 12000     69939  0.10  0.04     7
A001 12000 12300     69940  0.17  0.09    11
A001 12300 12600     69941  0.25  0.11    29
A001 12600 12900     69942  0.21  0.03    19
A001 12900 13200     69943  0.09  0.03    11
A001 13200 13500     69944  0.07  0.02    10
A001 13500 13715     69945  0.07 -0.02    27
/END
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HOLE APRDD010NQWL GRID NORTH 9840.47 GRID EAST10171.61
GRID AZIMUTH OF HOLE 235.00 VERTICAL ANGLE -75.00
TRUE AZIMUTH OF HOLE 235
TOTAL DERTH OF HOLE: 167.61mt.
Logged by: MMM on (day/mo/yr)...25MAY81

FROM 0.00MT. TO 3.00MT.
OVERBURDEN

FROM 3.00MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SOME MINOR DISTORTED PLAGIOCLASE LATHS
FRACTURES FILLED WITH ZEOLITE ARE VUGGY,
AS IN PREVIOUS HOLE, LIGHTER GREEN SECTIONS (WEATHERED) ARE ONLY
WEAKLY MAGNETIC WITH THE DARKER-GREYER SECTIONS BEING MODERATELY
MAGNETIC

FROM 6.00MT. TO 9.00MT. the same as 3.00MT. to 6.00MT. except as noted

SHEAR at 8.53 MT.

FROM 8.53MT. TO 9.00MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

20% QUARTZ VEINING as microveins
10% CARBONATES as microveins
5% ZEOLITE as microveins
.1% CHLORITE as pervasive mineralization

FROM 9.00MT. TO 12.00MT. the same as 3.00MT. to 6.00MT. except as noted

SHEAR at 9.00 MT.

FROM 9.00MT. TO 9.70MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

20% QUARTZ VEINING as microveins
10% CARBONATES as microveins
5% ZEOLITE as microveins
.1% CHLORITE as pervasive mineralization
SECTION BEYOND SHEAR - PARTIALLY BRECCIATED OR DISRUPTED WITH
ZEOLITE DEVELOPED INTERFRAGMENTALLY

FROM 12.00MT. TO 15.00MT. the same as 3.00MT. to 6.00MT. except as noted

SECTION PERVASIVELY CRUSHED WITH DEVELOPMENT OF QTZ/CARB/ZEOLITE
FRACTURE FILLINGS

FROM 15.00MT. TO 18.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHEAR at 15.25 MT.

FROM 15.25MT. TO 15.75MT. 100% of this subinterval is the same as 15.00MT. to 18.00MT. except as noted

1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminatinns and scattered crystals
.1% CHLORITE as pervasive mineralization
SLIGHT SHEAR ZONE -2 PHASES OF FRACTURING AND FRACTURE FILLING
WITH QTZ/CARB X-CUTTING QTZ/CARB/ZEOLITE FRACTURE FILLINGS

FROM 18.00MT. TO 21.00MT. the same as 15.00MT. to 18.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 15.00MT. to 18.00MT. except as noted

SHEAR at 21.00 MT.

FROM 21.00MT. TO 21.49MT. 100% of this subinterval is the same as 15.00MT. to 18.00MT. except as noted

20% QUARTZ VEINING as microveins
10% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization

FROM 24.00MT. TO 27.00MT. the same as 15.00MT. to 18.00MT. except as noted

SLIGHT BRECCIATION TOWARDS END OF SECTION AND AT BEGINING OF THE
NEXT

FROM 27.00MT. TO 30.00MT. the same as 15.00MT. to 18.00MT. except as noted

FROM 30.00MT. TO 33.00MT. the same as 15.00MT. to 18.00MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 15.00MT. to 18.00MT. except as noted

SOME QTZ/CARB VEINS UP TO 2 CENTIMETERS WIDE BUT MOST ARE MICRO-
VEIN SIZE AND ARE FRACTURE FILLINGS

FROM 36.00MT. TO 39.00MT. the same as 15.00MT. to 18.00MT. except as noted

OVERALL 10-15% RUBBLE IN ABOVE CORE
TWO PHASES OF FRACTURING (MICROFAULTS)

FROM 39.00MT. TO 42.00MT. the same as 15.00MT. to 18.00MT. except as noted
green grey
Textures noted: , EQUIGRANULAR
100 PC. recovered core in this interval

FROM 42.00MT. TO 45.00MT. the same as 15.00MT. to 18.00MT. except as noted

FROM 45.00MT. TO 45.30MT. the same as 15.00MT. to 18.00MT. except as noted

FROM 45.30MT. TO 48.00MT.
dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 070,
1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
/ ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SMALL WHITE SPECKS- POSSIBLE SPHERULITES (.2MM)
PY AS DISSEMINATED BLEBS AND AS SCATTERED X-TALS AND FRACTURE
FILLINGS
CORE SHOT THROUGH WITH HAIRLINE QTZ/ZEOLITE FILLED FRACTURES

FROM 48.00MT. TO 51.00MT. the same as 45.30MT. to 48.00MT. except as noted

FROM 51.00MT. TO 54.00MT. the same as 45.30MT. to 48.00MT. except as noted

FROM 54.00MT. TO 57.00MT. the same as 45.30MT. to 48.00MT. except as noted

SHEAR at 54.26 MT.

FROM 54.26MT. TO 54.56MT. 100% of this subinterval is the same as 45.30MT. to 48.00MT. except as noted

Structures noted: CONTACT (straight) dip 080,
2.5% CHLORITE as microveins
CHLORITIZED AND SLICKENSIDED SHEAR ZONE
SHEAR at 56.30 MT.

FROM 56.30MT. TO 56.90MT. 100% of this subinterval is the same as 45.30MT. to 48.00MT. except as noted

60% CARBONATES as microveins
CARBONATE FILLED SHEAR

FROM 57.00MT. TO 57.32MT. the same as 45.30MT. to 48.00MT. except as noted

FROM 57.32MT. TO 60.00MT.
dark grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 055,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microvsins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as blebs
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
VERY FINE CARBONATE FILLED MICROFAULTS DISPLACING ZEOLITE FILLED MICROFAULTS
DISSEMINATED BLEBS OF PYRITE

FROM 60.00MT. TO 61.10MT. the same as 57.32MT. to 60.00MT. except as noted

FROM 61.10MT. TO 62.20MT.
dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 035,
1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
2CM CARB/ZEOLITE VEINS AS FRACTURE FILLINGS

FROM 61.62MT. TO 62.20MT. 100% of this subintwrval is the same as 61.10MT. to 62.20MT. except as noted

DACITE COARSENS TOWARDS LOWER CONTACT WITH INCREASED SPHERULITES

FROM 62.20MT. TO 63.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 060,
2.5% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
0-5 TO 3.0 MM RECTANGULAR TO SUB-RECTANGULAR LATHS OF UNKNOWN MATERIAL
HAS APPEARANCE OF PORPHYRY MATERIAL AND APPEARS TO BE A DYKE
SILICEOUS/PYRITIC VEINS/STRS UP TO 1CM (2%)
X-TAL TUFF FAULT CONTACTED AT TOP AND INJECTION CONTACT AT BOTTOM ASSUMING A DYKE

FROM 63.00MT. TO 64.30MT. the same as 62.20MT. to 63.00MT. except as noted

FROM 64.30MT. TO 64.60MT.
dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 030,
1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 64.60MT. TO 66.00MT.
very dark grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 66.00MT. TO 67.05MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 020,
1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.3% QUARTZ (brn. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 67.05MT. TO 67.80MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 005,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SPHERULITIC FRAGMENTS TO 7 CM REPRESENTING 70% OF THE CORE
REMAINDER OF FRAGMENTS TO 2CM AND MULTILITHIC
SECTION GRADES COARSE TO FINE DOWN THE CORE

FROM 67.80MT. TO 68.84MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as laminations, bedded
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SEQUENCE COARSENS DOWN THE CORE FROM 1CM TO 5CM SIZE
5% OF FRAGMENTS ARE QUITE SPHERULITIC
DYKE at 68.84 MT.

FROM 68.84MT. TO 69.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (straight) dip 015,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as amydaloids, cavity fillings
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
.1% ZEOLITE as microveins
100 PC. recovered core in this interval
DYKE FINES AT MARGINS BUT IS AMYGDALOIDAL AND MAY BE A FLOW
NO APPARENT FLOW BANDING

FROM 69.00MT. TO 69.80MT. the same as 68.84MT. to 69.00MT. except as noted

FROM 69.80MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 010,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FRAGMENTS EVENLY DISTRIBUTED IN SECTION FOR SIZE AND NUMBER

FROM 72.00MT. TO 72.42MT. the same as 69.80MT. to 72.00MT. except as noted

LOWER CONTACT SHEARED AND CHLORITIC

FROM 72.42MT. TO 73.15MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
RUBBLY, SHOT THRU WITH QTZ/CARB/ZEOLITE FRACTURE FILLINGS
DYKE at 73.15 MT.

FROM 73.15MT. TO 74.20MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
NOTED ONE AMYGDULE. AS ABOVE- FINES AT CONTACTS

FROM 74.20MT. TO 74.90MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (straight) dip 030,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
FINES DOWN SECTION - PROBABLE EPICLASTIC

FROM 74.90MT. TO 75.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 015,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHORT SECTION -POSSIBLE FRAGMENT BUT MORE LIKELY A BREAK IN THE
COARSE MATERIAL AS FRAGMENT SIZE COARSENS DIRECTLY BELOW IT
(IE: COARSE FRAGMENTS-ASH TUFF-COARSER FRAGMENTS)

FROM 75.00MT. TO 76.20MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
AS ABOVE - FINES DOWN SECTION

FROM 76.20MT. TO 78.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
JADE-GREEN FRAGMENTS WITH ONE 20 CM WELL BANDED FRAGMENT

FROM 78.00MT. TO 80.55MT. the same as 76.20MT. to 78.00MT. except as noted

FROM 80.55MT. TO 81.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 81.00MT. TO 81.50MT. the same as 80.55MT. to 81.00MT. except as noted

FROM 81.50MT. TO 84.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 060,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ALTERED MATRIX GIVING RUBBLY CORE
UNIFORM FRAGMENTS THROUGHOUT SECTION
SHEAR at 82.30 MT.

FROM 82.30MT. TO 82.45MT. 100% of this subinterval is the same as 81.50MT. to 84.00MT. except as noted

Structures noted: CONTACT (straight) dip 085,

FROM 84.00MT. TO 85.04MT. the same as 81.50MT. to 84.00MT. except as noted

FROM 85.04MT. TO 86.80MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
.03% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval
POSSIBLE DYKE? SPOTTY PATCHES OF CHLORITE
TWO SHORT SECTION OF FRAGMENTAL- 85.45 TO 85.55 AND AT 85.70
TO 85.80

FROM 86.80MT. TO 87.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
/ QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.01% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SHOT THROUGH WITH QTZ VEINLETS
SHEAR at 86.70 MT.

FROM 86.70MT. TO 87.00MT. this subinterval is the same as 86.80MT. to 87.00MT. except as noted

Structures noted: CONTACT (irregular) ,

FROM 87.00MT. TO 90.00MT. the same as 86.80MT. to 87.00MT. except as noted

FROM 90.00MT. TO 90.38MT. the same as 86.80MT. to 87.00MT. except as noted

FROM 90.38MT. TO 91.30MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
QUITE WELL CRUSHED

FROM 91.30MT. TO 91.85MT.
green grey FINE RHYODACITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.3% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval

FROM 91.85MT. TO 93.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) dip 050,
.1% QUARTZ VEINING as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
GENERALLY COARSENS DOWN SECTION. FRAGMENTS MULTILITHIC
SILICIFIED

FROM 93.00MT. TO 96.00MT. the same as 91.85MT. to 93.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 96.00MT. TO 99.00MT. the same as 91.85MT. to 93.00MT. except as noted

FROM 99.00MT. TO 101.10MT. the same as 91.85MT. to 93.00MT. except as noted

FROM 101.10MT. TO 102.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CONSISTAN CLAST SIZE THRU SECTION

FROM 102.00MT. TO 103.60MT. the same as 101.10MT. to 102.00MT. except as noted

MATRIX MORE ALTERED- SOFTER

FROM 103.60MT. TO 105.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 070,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
SECTION ALMOST TOTALLY FRAGMENTAL WITH A MOSAIC TEXTURE

FROM 105.00MT. TO 108.00MT. the same as 103.60MT. to 105.00MT. except as noted

FROM 108.00MT. TO 111.00MT. the same as 103.60MT. to 105.00MT. except as noted

Textures noted: BRECCIATED
1% QUARTZ (brx. or interfrag. fill) as breccia fillings

FROM 111.00MT. TO 114.00MT. the same as 103.60MT. to 105.00MT. except as noted

CORE WELL FRACTURED WITH SOFT MATRIX IN PLACES
CORE - 40% RUBBLE

FROM 114.00MT. TO 117.00MT. the same as 103.60MT. to 105.00MT. except as noted

CORE MORE COMPETANT WITH SOME CHLORITIC SLICKENSIDED FRACTURES

FROM 117.00MT. TO 117.62MT. the same as 103.60MT. to 105.00MT. except as noted

DYKE at 117.62 MT.

FROM 117.62MT. TO 118.60MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (straight) dip 045,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
.03% ZEOLITE as amydaloids, cavity fillings
100 PC. recovered core in this interval
FINES TOWARDS LOWER CONTACT, FAULTED AT TOP CONTACT
SOME INFILLED CAVITIES

FROM 118.60MT. TO 120.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
CORE HAS SOFT MATRIX IN PLACES - ALTERED GLASS

FROM 120.00MT. TO 123.00MT. the same as 118.60MT. to 120.00MT. except as noted

FAULT at 120.25 MT.

FROM 120.25MT. TO 120.30MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 025,

FROM 123.00MT. TO 124.20MT. the same as 118.60MT. to 120.00MT. except as noted

FAULT at 123.14 MT.

FROM 123.14MT. TO 123.24MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 040,
FAULT at 124.20 MT.

FROM 124.20MT. TO 124.70MT.
GOUGE
Structures noted: CONTACT (straight) dip 035,

FROM 124.70MT. TO 126.00MT.
green grey FINE RHYOLITE LAPILLI TUFF
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CHLORITE as pervasive mineralization
.03% EPIDOTE as patches
100 PC. recovered core in this interval

FROM 126.00MT. TO 126.40MT. the same as 124.70MT. to 126.00MT. except as noted

ROCK FRAGMENTS COARSER OVER 40CM TO LOWER CONTACT

FROM 126.40MT. TO 127.10MT.
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
REOCCURANCE OF DYKE/X-TAL TUFF, BUT SOFTER & COARSER THAN RNXF
POSSIBLE DIFFERENT PHASE OF SAME EVENT,
NO APPARENT CONTACTS, SOME POSSIBLE FLOW BANDING

FROM 127.10MT. TO 129.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CHLORITE as pervasive mineralization
POSSIBLE WELL ALTERED RHYOLITE
ONE LARGE (3CM) FRAGMENT NOTED WITH AN ALTERATION RIM (ETCHED)
ROCK MAY ALSO BE EPICLASTIC - COARSENS DOWN SECTION
POSSIBLE SPHERULITES
CONTACT WITH X-TAL TUFF OBSCURED BY RUBBLE

FROM 129.00MT. TO 132.00MT. the same as 127.10MT. to 129.00MT. except as noted

10% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 132.00MT. TO 135.00MT. the same as 127.10MT. to 129.00MT. except as noted

2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 135.00MT. TO 137.00MT. the same as 127.10MT. to 129.00MT. except as noted

FROM 137.00MT. TO 138.00MT.
med. dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
FINE GRAINED GREY SILICEOUS SEDIMENT AS IN DDH 007
VERY FINELY DISSEMINATED PYRITE
FAULT at 137.00 MT.

FROM 137.00MT. TO 137.15MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 070,
FAULT at 137.55 MT.

FROM 137.55MT. TO 137.65MT. 60% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 030,
RESISTANT FRAGMENTS IN GOUGE
SECTION INCLUDED AS A SEDIMENT BY VIRTUE OF ITS POSITION IN DDH7
WITH THE OTHER SEDIMENTS - EPICLASTIC RHYODACITE TUFF,SILICIFIED

FROM 138.00MT. TO 140.37MT. the same as 137.00MT. to 138.00MT. except as noted

FROM 140.37MT. TO 140.55MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
LOWER CONTACT GOUGY AND IRREGULAR

FROM 140.55MT. TO 141.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.03% CHLORITE as pervasive mineralization
100 PC. recovered core in this interval
ROCK WELL BRECCIATED AND SHOT THROUGH WITH MICROVEINS

FROM 141.00MT. TO 144.00MT. the same as 140.55MT. to 141.00MT. except as noted

FROM 144.00MT. TO 146.30MT. the same as 140.55MT. to 141.00MT. except as noted

Structures noted: BANDING dip 030
100 PC. recovered core in this interval
SECTION IS BANDED AND LESS BRECCIATED

FROM 146.30MT. TO 146.50MT.
med. dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SAME AS FROM 137.00 TO 140.37

FROM 146.50MT. TO 147.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
100 PC. recovered core in this interval
FINE WHITE DEVITRIFICATION LINES OUTLINING SHARDS (GLASSY MATRIX
GRADATIONAL INTO COARSER ROCK

FROM 147.00MT. TO 150.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% CHLORITE as pervasive mineralization
.03% EPIDOTE as microveins
100 PC. recovered core in this interval
WELL ALTERED ROCK WITH ALTERATION AS ENVELOPES TO FRACTURES
TWO GENERATIONS OF FRACTURES WELL OPPOSED
SOME OF THE FRACTURES ARE SILICA FLOODED WITH PYRITE AS WELL

FROM 150.00MT. TO 153.00MT. the same as 147.00MT. to 150.00MT. except as noted

THIS SECTION SHOWS SOME GRADATION IN GRAIN SIZE WITH SHARP
BREAKS BETWEEN COARSE AND FINE. MAY REFLECT SUCESSIVE FRACTURED
FLOWS OR TUFFS (NO APPARENT FLOW CONTACTS)

FROM 153.00MT. TO 156.00MT. the same as 147.00MT. to 150.00MT. except as noted

Textures noted: , EQUIGRANULAR
ROCK BECOMES SOMEWHAT COARSER BUT STILL ESSENTIALLY THE SAME.
-ANDESITE TO DACITE (?)

FROM 156.00MT. TO 159.00MT. the same as 147.00MT. to 150.00MT. except as noted

FROM 159.00MT. TO 162.00MT. the same as 147.00MT. to 150.00MT. except as noted

FROM 162.00MT. TO 165.00MT. the same as 147.00MT. to 150.00MT. except as noted

FROM 165.00MT. TO 167.61MT. the same as 147.00MT. to 150.00MT. except as noted

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	69954	0.03	0.03	6	
A001	600	900	69955	0.03	-0.02	1	
A001	900	1200	69956	0.02	0.05	-1	
A001	1200	1500	69957	0.05	0.04	-1	
A001	1500	1800	69958	-0.02	-0.02	6	
A001	1800	2100	69959	0.07	0.03	-1	
A001	2100	2400	69960	0.03	-0.02	2	
A001	2400	2700	69961	-0.02	0.02	2	
A001	2700	3000	69962	0.03	0.02	15	
A001	3000	3300	69963	0.09	-0.02	1	
A001	3300	3600	69964	0.06	-0.02	1	
A001	3600	3900	69965	0.10	0.03	22	
A001	3900	4200	69966	0.10	0.02	-1	
A001	4200	4500	69967	0.08	0.03	-1	
A001	4500	4800	69968	0.09	0.03	14	
A001	4800	5100	69969	0.11	0.04	17	
A001	5100	5400	69970	0.12	0.04	9	
A001	5400	5700	69971	0.11	0.10	15	
A001	5700	6000	69972	0.09	-0.02	9	
A001	6000	6300	69973	0.06	-0.02	3	
A001	6300	6600	69974	0.05	0.03	1	
A001	6600	6900	69975	0.15	0.31	50	
A001	6900	7200	69976	0.26	0.11	25	
A001	7200	7500	69977	0.17	0.08	22	
A001	7500	7800	69978	0.13	0.07	30	
A001	7800	8100	69979	0.24	0.05	56	
A001	8100	8400	69980	0.21	0.03	43	
A001	8400	8700	69981	0.10	-0.02	9	
A001	8700	9000	69982	0.15	-0.02	26	
A001	9000	9300	69983	0.31	0.07	50	

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A001  9300  9600     69984  0.15 -0.02    35
A001  9600  9900     69985  0.10  0.04    12
A001  9900 10200     69986  0.31  0.30    40
A001 10200 10500     69987  0.57  0.39    90
A001 10500 10800     69988  0.34  0.16    50
A001 10800 11100     69989  0.08  0.04    11
A001 11100 11400     69990  0.20  0.07    30
A001 11400 11700     69991  0.27  0.09    27
A001 11700 12000     69992  0.55  0.44    14
A001 12000 12300     69993  0.28  0.51    90
A001 12300 12600     69994  0.84  0.74    44
A001 12600 12900     69995  0.63  0.60    30
A001 12900 13200     69996  0.27  0.07    45
A001 13200 13500     69997  0.40  0.22    36
A001 13500 13800     69998  0.20  0.03  44.9
A001 13800 14100     69999  0.31  0.08  46.8
A001 14100 14400     70000  0.06 -0.02    29
A001 14400 14700     68676  0.07 -0.02    27
A001 14700 15000     68677  0.20 -0.02    33
A001 15000 15300     68678  0.11 -0.02    31
A001 15300 15600     68679  0.10 -0.02    43
A001 15600 15900     68680  0.12 -0.02    23
A001 15900 16200     68681  0.12 -0.02    23
A001 16200 16500     68682  0.09 -0.02    23
A001 16500 16770     68683  0.09 -0.02    23
/END
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HOLE APRDD011NQWL GRID NORTH 9840.47 GRID EAST10171.61
GRID AZIMUTH OF HOLE 275.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 275
TOTAL DEPTH OF HOLE: 121.62mt.
Logged by: MMW on (day/mo/yr)...01JUN81

FROM 0.00MT. TO 3.00MT.
OVERBURDEN

FROM 3.00MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
1% QUARTZ VEINING as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
ANDESITE TO DACITE TUFF - WEATHERED ZONES ARE NON-MAGNETIC WITH
THE FRESHER ROCK BEING MODERATELY MAGNETIC
OCCAISIONAL QUARTZ-EYE(?)
ROCK IS COMPETANT BUT WELL FRACTURED
MAY BE FLOW MATERIAL AS THERE IS ALIGNMENT OF SMALL WHITE X-TALS
BUT NO APPARENT CONTACTS

FROM 6.00MT. TO 9.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 9.00MT. TO 12.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 9.30MT. TO 10.00MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

50% CARBONATES as veins
FRACTURE FILLINGS INCREASE SHARPLY WITH LARGE AMOUNTS OF
CARBONATE VEINING
WEATHERED ZONE TO 9.60 METERS

FROM 12.00MT. TO 15.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 15.00MT. TO 18.00MT. the same as 3.00MT. to 6.00MT. except as noted

.1% CARBONATES as microveins
CORE- 50% RUBBLE

FROM 18.00MT. TO 21.00MT. the same as 3.00MT. to 6.00MT. except as noted

.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
CORE- 60% RUBBLE

FROM 21.00MT. TO 24.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 24.00MT. TO 27.00MT. the same as 3.00MT. to 6.00MT. except as noted

1% CARBONATES as microveins
10% ZEOLITE as microveins

FROM 27.00MT. TO 30.00MT. the same as 3.00MT. to 6.00MT. except as noted

.3% CARBONATES as microveins
5% ZEOLITE as microveins

FROM 30.00MT. TO 33.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 36.00MT. TO 39.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 39.00MT. TO 42.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 42.00MT. TO 45.00MT. the same as 3.00MT. to 6.00MT. except as noted

FAULT at 42.40 MT.

FROM 42.40MT. TO 43.60MT. 20% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

Structures noted: CONTACT (straight) dip 085,
FAULT RUNS 1.20M ALONG CORE. SLICKENSIDED WITH GOUGE
POSSIBLE FLOW CONTACT AT 44.35 METERS AT 035DEG.

FROM 45.00MT. TO 46.55MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 46.55MT. TO 48.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 030,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
DISTINGUISHED FROM ABOVE BY BEING NON-MAGNETIC AND CONTAINING
PROBABLE SPHERULITES

FROM 48.00MT. TO 51.00MT. the same as 46.55MT. to 48.00MT. except as noted

CORE INCREASINGLY SHOT THRU WITH ZEOLITE FILLED MICROFAULTS

FROM 51.00MT. TO 53.50MT. the same ss 46.55MT. to 48.00MT. except as noted

FROM 53.50MT. TO 53.70MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
5% CARBONATES as microveins
5% ZEOLITE as microveins
100 PC. recovered core in this interval

FROM 53.70MT. TO 54.00MT.
green grey FINE DACITE TUFF
Textures noted: BRECCIATED
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
30% ZEOLITE as breccia fillings
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
BRECCIATED INTO .5 TO 1CM PIECES AND ZEOLITE FLOODED

FROM 54.00MT. TO 54.75MT. the same as 53.70MT. to 54.00MT. except as noted

GRADATIONAL CONTACT FROM 54.50 TO 54.80 WITH PIECES OF BANDED
RAYOLITE FROM BELOW INCLUDED WITH DACITE - BRECCIATED CONTACT

FROM 54.75MT. TO 56.15MT.
green grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
2.5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
2.5% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MAY BE CONSIDERED FRAGMENTAL BUT MAJORITY IS BANDED RHYOLITE AND
ONLY PARTIALLY BRECCIATED. QTZ FLOODED WHERE BRECCIATED.

FROM 56.15MT. TO 56.80MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CORE- 60% RUBBLE -MAY BE A BROKEN UP BRECCIA

FROM 56.80MT. TO 57.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.3% QUARTZ VEINING as microvnins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 57.00MT. TO 58.35MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 58.35MT. TO 60.00MT.
med. light grey COARSE SPHERUL. RHYOLITIC TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
NOTED THE ODD ROUNDED FRAGMENT

FROM 60.00MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MATRIX SOFT AND ALTERED

FROM 60.50MT. TO 61.10MT. 100% of this subinterval is
green grey COARSE SPHERUL. RHYOLITIC TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
CORE- BROKEN AND QUITE ALTERED
FAULT at 61.55 MT.

FROM 61.55MT. TO 62.20MT. 50% of this subinterval is
GOUGE
GOUG ZONE

FROM 63.00MT. TO 66.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
? QUARTZ FLOODING as framework crystals
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
MULTILITHIC ASSEMBAGE OF RHYOLITIC FRAGMENTS, SOME OF WHICH ARE
BANDED AND MOST ARE SPHERULITIC. WELL SILICA FLOODED

FAULT at 64.85 MT.

FROM 64.85MT. TO 64.90MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 66.00MT. TO 69.00MT. the same as 63.00MT. to 66.00MT. except as noted

FAULT at 66.00 MT.

FROM 66.00MT. TO 66.05MT. 100% of this subinterval is
GOUGE

FAULT at 66.40 MT.

FROM 66.40MT. TO 66.50MT. 100% of this subinterval is
GOUGE

FROM 69.00MT. TO 72.00MT. the same as 63.00MT. to 66.00MT. except as noted

FROM 71.32MT. TO 71.40MT. 100% of this subinterval is the same as 63.00MT. to 66.00MT. except as noted

100% QUARTZ VEINING as veins
1.5CM QTZ VEIN WITH 1 TO 3CM PYRITE AND SILICA FLOODED ENVELOPE
7132 7140 SPECIMEN TAKEN
SAMPLE TO SUE CAMPBELL FOR EXAMINATION AND GOLD ASSAY

FROM 72.00MT. TO 75.00MT. the same as 63.00MT. to 66.00MT. except as noted

5% QUARTZ (brx. or interfrag. fill) as breccia fillings
HEAVY PY ASSOC. WITH SILICA FLOODING.

FROM 75.00MT. TO 78.00MT. the same as 63.00MT. to 66.00MT. except as noted

5% QUARTZ VEINING as veins
100 PC. recovered core in this interval
3 CM QTZ VEIN AT 76.00 METERS

FROM 78.00MT. TO 79.55MT. the same as 63.00MT. to 66.00MT. except as noted

FROM 79.55MT. TO 80.85MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 020, BANDING (irregular)
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
BANDED AT MARGINS, POSSIBLE FLOW

FROM 80.85MT. TO 81.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
5% QUARTZ VEINING as macroveins, and veins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval

FROM 81.00MT. TO 84.00MT. the same as 80.85MT. to 81.00MT. except as noted

FAULT at 81.18 MT.

FROM 81.18MT. TO 81.23MT. 100% of this subinterval is
GOUGE

FROM 84.00MT. TO 87.00MT. the same as 80.85MT. to 81.00MT. except as noted

NOT AS BRECCIATED AS PREVIOUS SECTION
FAULT at 86.03 MT.

FROM 86.03MT. TO 86.15MT. 100% of this subinterval is
GOUGE
FAULT at 86.60 MT.

FROM 86.60MT. TO 86.90MT. 100% of this subinterval is
GOUGE

FROM 87.00MT. TO 90.00MT. the same as 80.85MT. to 81.00MT. except as noted

5% QUARTZ (brx. or interfrag. fill) as breccia fillings

FROM 87.05MT. TO 87.80MT. 50% of this subinterval is
GOUGE
SHEAR at 89.10 MT.

FROM 89.10MT. TO 89.15MT. this subinterval is the same as 80.85MT. to 81.00MT. except as noted

/ CLAYS as pervasive mineralization

FROM 90.00MT. TO 93.00MT. the same as 80.85MT. to 81.00MT. except as noted

.03% CARBONATES as microveins
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
PY OFTEN AS SELVAGES TO QTZ VEINS
NO VISIBLE GOLD!!!

FROM 93.00MT. TO 96.00MT. the same as 80.85MT. to 81.00MT. except as noted

FROM 96.00MT. TO 98.60MT. the same as 80.85MT. to 81.00MT. except as noted

FOR THE ABOVE FRAGMENTAL - QTZ VEINS WELL DEVELOPED (95 TO 3CM)
- CLOUDY TO SMOKY QTZ

DYKE at 98.60 MT.

FROM 98.60MT. TO 99.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 99.00MT. TO 100.45MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 060,
.3% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
TWO POPULATIONS OF FRAGMENTS (LAPILLI AND 10CM FRAGMENTS)

FROM 100.45MT. TO 102.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 102.00MT. TO 102.75MT. the same as 100.45MT. to 102.00MT. except as noted

FROM 102.75MT. TO 104.55MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 085,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
FAULT CONTACT AT TOP
FAULT at 102.75 MT.

FROM 102.75MT. TO 102.90MT. 40% of this subinterval is
GOUGE

FROM 104.55MT. TO 105.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 060,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 105.00MT. TO 108.00MT. the same as 104.55MT. to 105.00MT. except as noted

FROM 105.50MT. TO 105.60MT. 100% of this subinterval is the same as 104.55MT. to 105.00MT. except as noted

FROM 105.75MT. TO 105.92MT. 100% of this subinterval is the same as 104.55MT. to 105.00MT. except as noted

FROM 108.00MT. TO 111.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
FIRST 40 TO 50 CM IS BANDED BUT THIS MAY BE A SHEAR OR FLOW
MARGIN EFFECT

FROM 108.00MT. TO 108.60MT. this subinterval is the same as 108.00MT. to 111.00MT. except as noted

Structures noted: BANDING dip 030,

FROM 111.00MT. TO 114.00MT. the same as 108.00MT. to 111.00MT. except as noted

FROM 114.00MT. TO 117.00MT. the same as 108.00MT. to 111.00MT. except as noted

FROM 117.00MT. TO 120.00MT. the same as 108.00MT. to 111.00MT. except as noted

FROM 120.00MT. TO 121.62MT. the same as 108.00MT. to 111.00MT. except as noted

ROCK REGULARILY DISSECTED BY FINE BLACK LINES 2 TO 3CM APART AND
APPEARS TO BE SILICA WITH ASSOC. PY

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	68684	0.02	0.05	2	
A001	600	900	68685	0.03	-0.02	6	
A001	900	1200	68686	0.03	-0.02	3	

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A001  1200  1500     68687  0.03 -0.02     4
A001  1500  1800     68688  0.02 -0.02     2
A001  1800  2100     68689  0.02 -0.02     2
A001  2100  2400     68690  0.02 -0.02     5
A001  2400  2700     68691  0.02 -0.02     9
A001  2700  3000     68692  0.03 -0.02     7
A001  3000  3300     68693  0.04 -0.02     5
A001  3300  3600     68694  0.03 -0.02     8
A001  3600  3900     68695  0.04 -0.02    12
A001  3900  4200     68696  0.03 -0.02     2
A001  4200  4500     68697  0.04 -0.02     5
A001  4500  4800     68698  0.05 -0.02     6
A001  4800  5100     68699  0.08 -0.02    22
A001  5100  5400     68700  0.05 -0.02    25
A001  5400  5700     68701  0.13  0.05    37
A001  5700  6000     68702  0.39  0.40    74
A001  6000  6300     68703  0.60  0.53   191
A001  6300  6600     68704  0.25  0.24    95
A001  6600  6900     68705  0.27  0.15    74
A001  6900  7200     68706  0.50  0.53   148
A001  7200  7500     68707  0.57  0.93   185
A001  7500  7800     68708  0.60  1.66   195
A001  7800  8100     68709  0.21  0.33    33
A001  8100  8400     68710  0.30  0.41    63
A001  8400  8700     68711  0.85  0.55   115
A001  8700  9000     68712  0.62  0.32   110
A001  9000  9300     68713  0.93  0.76    92
A001  9300  9600     68714  0.70  0.98   110
A001  9600  9900     68715  0.73  1.00    85
A001  9900 10200     68716  0.21  0.03    24
A001 10200 10500     68717  0.17  0.02    22
A001 10500 10800     68718  0.31  0.11    46
A001 10800 11100     68719  0.04  0.05    18
A001 11100 11400     68720  0.08  0.04    23
A001 11400 11700     68721  0.03  0.04    19
A001 11700 12000     68722  0.03  0.04    13
A001 12000 12161     68723  0.04  0.04    11
/END
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HOLE APRDD012NQWL GRID NORTH 9840.47 GRID EAST10171.61
GRID AZIMUTH OF HOLE 0.00 VERTICAL ANGLE -90.00
TRUE AZIMUTH OF HOLE 0
TOTAL DEPTH OF HOLE: 207.70mt.
  Logged by: MMM on (day/mo/yr)...04JUN81

FROM 0.00MT. TO 3.00MT.
  OVERBURDEN

FROM 3.00MT. TO 6.00MT.
  green grey ANDESITE DACITE TUFF
  Textures noted: , EQBIGRANULAR
  .1% QUARTZ VEINING as microveins
  .1% CARBONATES as microveins
  1% ZEOLITE as microveins
100 PC. recovered core in this interval
  AS IN PREVIOUS TWO HOLES, ONE ROCK TYPE WITH A WEATHERED VERSION
  WEATHERED VERSION IS LIGHTER AND GREENER AND WEAK TO
  NON-MAGNETIC
  AGAIN PRESENCE OF BLUISH INDISTINCT PATCHES WHICH MAY BE QUARTZ-
  EYES (1 TO 3 MM)

FROM 6.00MT. TO 9.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 9.00MT. TO 12.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 3.00MT. to 6.00MT. except as noted

  2.5% ZEOLITE as microveins
SHEAR at 12.55 MT.

FROM 12.55MT. TO 12.80MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

  10% QUARTZ VEINING as microveins
  5% CARBONATES as microveins

FROM 15.00MT. TO 18.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 15.60MT. TO 15.75MT. 100% of this subinterval is the same as 3.00MT. to 6.00MT. except as noted

  100% ZEOLITE as veins
ALSO OTHER ZEOLITE VEINS TO 2 CM RUNNING THRU CORE (FLT OVER 1CM
FAULT at 16.50 MT.

FROM 16.50MT. TO 16.85MT. 100% of this subinterval is
  GOUGE
  Structures noted: CONTACT (straight) dip 085,

FROM 18.00MT. TO 21.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 24.00MT. TO 27.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 27.00MT. TO 30.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 30.00MT. TO 33.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 36.00MT. TO 39.00MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 39.00MT. TO 40.75MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 40.75MT. TO 42.00MT.
med. dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 045,
.03% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
5% ZEOLITE as breccia fillings
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
DACITE TUFF OCCURS AS A DISCRETE BAND WITHIN THE ANDESITE
PARTIALLY BRECCIATED, BRECCIA FILLING WITH ZEOLITE

FROM 42.00MT. TO 45.00MT. the same as 40.75MT. to 42.00MT. except as noted

FROM 45.00MT. TO 48.00MT. the same as 40.75MT. to 42.00MT. except as noted

FROM 48.00MT. TO 49.95MT. the same as 40.75MT. to 42.00MT. except as noted

FROM 49.95MT. TO 51.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SOME HEMATITE WITH ZEOLITE IN FRACTURE FILLINGS

FROM 51.00MT. TO 51.50MT. the same as 49.95MT. to 51.00MT. except as noted

FROM 51.50MT. TO 53.60MT.
med. dark grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
5% ZEOLITE as breccia fillings
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CONTACT AT TOP OF THIS SECTION OBSCURED BY RUBBLE

FROM 53.60MT. TO 54.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
1% ZEOLITE as microveins
100 PC. recovered core in this interval

FROM 54.00MT. TO 57.00MT. the same as 53.60MT. to 54.00MT. except as noted

FAULT at 56.03 MT.

FROM 56.03MT. TO 56.04MT. 100% of this subinterval is
GOUGE

FROM 57.00MT. TO 60.00MT. the same as 53.60MT. to 54.00MT. except as noted

FROM 60.00MT. TO 63.00MT. the same as 53.60MT. to 54.00MT. except as noted

FROM 63.00MT. TO 66.00MT. the same as 53.60MT. to 54.00MT. except as noted

FROM 63.30MT. TO 63.42MT. 100% of this subinterval is the same as 53.60MT. to 54.00MT. except as noted

Structures noted: CONTACT (straight) dip 055,
100% QUARTZ VEINING as veins
APPARENTLY BARREN QUARTZ VEIN

FROM 66.00MT. TO 68.40MT. the same as 53.60MT. to 54.00MT. except as noted

ANDESITE COARSENS OVER LAST .5 METERS TOWARDS CRYSTAL TUFF BELOW
PYRITE APPEARS IN COARSER SECTION

FROM 67.90MT. TO 68.40MT. 100% of this subinterval is the same as 53.60MT. to 54.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 68.40MT. TO 69.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 055,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
PY AS BLEBS AND DISSEMINATED CRYSTALS. X-TAL TUFF MORE LIKELY TO
BE DYKE MATERIAL - PORPHYRITIC

FROM 69.00MT. TO 70.65MT. the same as 68.40MT. to 69.00MT. except as noted

FROM 70.65MT. TO 72.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 005,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
AND/ FINES AWAY FROM CONTACT WITH X-TAL TUFF(PORPHYRY)

FROM 72.00MT. TO 75.00MT. the same as 70.65MT. to 72.00MT. except as noted

FROM 73.60MT. TO 73.75MT. 100% of this subinterval is the same as 70.65MT. to 72.00MT. except as noted

50% CARBONATES as veins
50% ZEOLITE as veins

FROM 75.00MT. TO 76.00MT. the same as 70.65MT. to 72.00MT. except as noted

FROM 76.00MT. TO 76.90MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
1% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
CONTACT IS BRECCIATED

FROM 76.90MT. TO 78.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
Structures noted: CONTACT (irregular) dip 010,
.03% QUARTZ VEINING as microveins
1% CARBONATES as amydaloids, cavity fillings
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
NUMEROUS WHITE PATCHES OF CARBONATE TO 3MM (INDISTINCT)
POSSIBLE FLOW. FINES AT CONTACTS. AMYGDALOIDAL.
GREATER THICKNESS OF FINE MATERIAL AT BOTTOM, AMYGDULES AT TOP
INDICATING FLOW IS RIGHT SIDE UP

FROM 78.00MT. TO 78.20MT. the same as 76.90MT. to 78.00MT. except as noted

FROM 78.20MT. TO 81.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 010,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. gin'l. w/ some vns, microvns, selv.& envel.
2.5% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval
NOT MUCH SILICA FLOODING. MATRIX APPEARS TO BE ALTERED GLASS
PYRITE OFTEN RIMMING FRAGMENTS

FROM 81.00MT. TO 82.60MT. the same as 78.20MT. to 81.00MT. except as noted

FROM 82.60MT. TO 84.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 055,
.03% QUARTZ VEINING as microveins
2.5% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as breccia fillings
100 PC. recovered core in this interval

FROM 83.60MT. TO 83.65MT. 100% of this subinterval is the same as 82.60MT. to 84.00MT. except as noted
GOUGE

FROM 84.00MT. TO 87.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as veins and dalmationite
1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. gin'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
SOME LARGE FRAGMENTS MAY POSSIBLY BE BANDS

FROM 87.00MT. TO 89.60MT. the same as 84.00MT. to 87.00MT. except as noted

DYKE at 89.60 MT.

FROM 89.60MT. TO 90.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 045,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as amygdaloids, cavity fillings
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
BLEBBY PYRITE, DISSEMINATED

FROM 90.00MT. TO 90.80MT. the same as 89.60MT. to 90.00MT. except as noted

FROM 90.80MT. TO 93.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 93.00MT. TO 96.00MT. the same as 90.80MT. to 93.00MT. except as noted

SECTION MORE BROKEN UP THAN PREVIOUSLY

FROM 96.00MT. TO 99.00MT. the same as 90.80MT. to 93.00MT. except as noted

100 PC. recovered core in this interval
FAULT at 97.00 MT.

FROM 97.00MT. TO 97.10MT. 100% of this subinterval is the same as 90.80MT. to 93.00MT. except as noted
GOUGE

FROM 99.00MT. TO 102.00MT. the same as 90.80MT. to 93.00MT. except as noted

FAULT at 101.55 MT.

FROM 101.55MT. TO 101.60MT. 100% of this subinterval is the same as 90.80MT. to 93.00MT. except as noted
GOUGE

FROM 102.00MT. TO 102.11MT. the same as 90.80MT. to 93.00MT. except as noted

LAST 11 CM VERY CHLORITIC

FROM 102.11MT. TO 102.40MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SECTION IS 5% CRYSTALS OF UNKNOWN COMPOSITION.
ROCK IS VERY HARD UNLIKE PREVIOUS SECTION IN HANGING WALL

FROM 102.40MT. TO 105.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 010,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MATRIX QUITE ALTERED AND CHLORITIC - ALTERED GLASS

FROM 105.00MT. TO 106.70MT. the same as 102.40MT. to 105.00MT. except as noted

FROM 106.70MT. TO 107.00MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) dip 030,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SPHERULITES TO .5MM

FROM 107.00MT. TO 108.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
VERY WELL FRACTURED BUT NOT BRECCIATED

FROM 108.00MT. TO 111.00MT. the same as 107.00MT. to 108.00MT. except as noted

SECTION BECOMING BRECCIATED

FROM 111.00MT. TO 111.80MT. the same as 107.00MT. to 108.00MT. except as noted

GRADES INTO BANDED RHYOLITE FROM 111.00 TO 111.40 BUT IS THE
SAME ROCK

FROM 111.40MT. TO 111.80MT. 100% of this subinterval is the same as 107.00MT. to 108.00MT. except as noted

Structures noted: BANDING dip 030,

FROM 111.80MT. TO 114.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (straight) dip 045,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CONTACT ZEOLITE LINED BY 1CM FRACTURE FILLING
AT 112.00 - DARK SILICEOUS BAND WORKS IN AND OUT OF CORE

POSSIBLE DEFORMED BED

FROM 114.00MT. TO 117.00MT. the same as 111.80MT. to 114.00MT. except as noted

FROM 117.00MT. TO 117.55MT. the same as 111.80MT. to 114.00MT. except as noted

FROM 117.55MT. TO 118.11MT.
green grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) , BANDING (irregular)
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
80 PC. recovered core in this interval
POSSIBLE BOULDER, CONTACTS IRREGULAR
FAULT at 118.11 MT.

FROM 118.11MT. TO 120.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
THIS SECTION UP TO 124.00 METERS HIGHLY SHEARED AND FAULTED
FAULT at 120.00 MT.

FROM 120.00MT. TO 123.00MT. the same as 118.11MT. to 120.00MT. except as noted

FAULT at 123.00 MT.

FROM 123.00MT. TO 123.90MT. the same as 118.11MT. to 120.00MT. except as noted

FROM 123.90MT. TO 126.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SOMEWHAT BROKEN-UP CORE

FROM 126.00MT. TO 129.00MT. the same as 123.90MT. to 126.00MT. except as noted

ROCK IS MUCH MORE COMPETAN THAN PREVIOUS SECTION

FROM 126.55MT. TO 126.75MT. 90% of this subinterval is the same as 123.90MT. to 126.00MT. except as noted

100% QUARTZ VEINING as dalmationite

FROM 129.00MT. TO 132.00MT. the same as 123.90MT. to 126.00MT. except as noted

FROM 132.00MT. TO 135.00MT. the same as 123.90MT. to 126.00MT. except as noted

FROM 135.00MT. TO 138.00MT. the same as 123.90MT. to 126.00MT. except as noted

SEQUENCE COARSENS DOWNWARDS

FROM 138.00MT. TO 141.00MT. the same as 123.90MT. to 126.00MT. except as noted

FROM 141.00MT. TO 142.85MT. the same as 123.90MT. to 126.00MT. except as noted

DYKE at 142.85 MT.

FROM 142.85MT. TO 144.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (irregular) dip 045,
.01% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% CARBONATES as amydaloids, cavity fillings
100 PC. recovered core in this interval
FLOW LINES PARALELLING CONTACT OVER 1CM
AMYGDULES WITH CARBONATE, .1 TO .5 CM
DYKE FINES AT CONTACTS

FROM 144.00MT. TO 144.58MT. the same as 142.85MT. to 144.00MT. except as noted

FROM 144.58MT. TO 147.00MT.
green grey FINE RHYOLITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 010,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
GRADES FROM FRAGMENTAL TO LAPILLI. FRAGMENTS MAY REPRESENT
RUBBLE PICKED UP AT THE BASE OF A FLOW (TOP OF SECTION
MATRIX IS A WELL ALTERED GLASS
SOME PYRITE AS RIMS TO FRAGMENTS AND SOME REPLACING FRAGMENTS.

FROM 147.00MT. TO 147.15MT. the same as 144.58MT. to 147.00MT. except as noted

FROM 147.15MT. TO 150.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 040,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 150.00MT. TO 152.65MT. the same as 147.15MT. to 150.00MT. except as noted

FROM 152.65MT. TO 153.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
AU POTENTIAL ROCK
SHEAR at 152.65 MT.

FROM 152.65MT. TO 152.85MT. 100% of this subinterval is the same as 152.65MT. to 153.00MT. except as noted

FROM 153.00MT. TO 155.35MT. the same as 152.65MT. to 153.00MT. except as noted

SHEAR at 155.10 MT.

FROM 155.10MT. TO 155.35MT. this subinterval is the same as 152.65MT. to 153.00MT. except as noted

Structures noted: CONTACT (straight) dip 070,

FROM 155.35MT. TO 156.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (straight) dip 070,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
ESSENTIALLY A TUFF WITH SOME FRAGMENTS, PARTIALLY BRECCIATED

FROM 156.00MT. TO 156.69MT. the same as 155.35MT. to 156.00MT. except as noted

FROM 156.69MT. TO 157.67MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 157.67MT. TO 159.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 075,
.01% QUARTZ VEINING as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 159.00MT. TO 162.00MT. the same as 157.67MT. to 159.00MT. except as noted

FROM 162.00MT. TO 165.00MT. the same as 157.67MT. to 159.00MT. except as noted

FROM 165.00MT. TO 168.00MT. the same as 157.67MT. to 159.00MT. except as noted

.03% CARBONATES as microveins
FAULT at 167.00 MT.

FROM 167.00MT. TO 167.30MT. 100% of this subinterval is
GOUGE
FAULT at 167.60 MT.

FROM 167.60MT. TO 167.75MT. 100% of this subinterval is
GOUGE

FROM 168.00MT. TO 171.00MT. the same as 157.67MT. to 159.00MT. except as noted

.1% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 171.00MT. TO 174.00MT. the same as 157.67MT. to 159.00MT. except as noted

MATRIX SOMEWHAT SOFTER. BOX 33 OVERTURNED, 90% RECOVERED

FROM 174.00MT. TO 176.00MT. the same as 157.67MT. to 159.00MT. except as noted

FROM 176.00MT. TO 177.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 050,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
80 PC. recovered core in this interval

FROM 177.00MT. TO 180.00MT. the same as 176.00MT. to 177.00MT. except as noted

FROM 180.00MT. TO 183.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
90 PC. recovered core in this interval
AT 180.59 - A FEW FRAGMENTS OF HIGHLY PYRITIC CARBON CHERT
PYRITE VARIABLY DISSEMINATED IN FRAGMENTS
FAULT at 182.60 MT.

FROM 182.60MT. TO 182.70MT. 100% of this subinterval is
GOUGE

FROM 183.00MT. TO 186.00MT. the same as 180.00MT. to 183.00MT. except as noted

FROM 186.00MT. TO 188.30MT. the same as 180.00MT. to 183.00MT. except as noted

FRAGMENTS INCREASING IN SIZE UP TO BOULDER

FROM 188.30MT. TO 189.00MT.
medium grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 060,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
APPEARS PARTIALLY BRECCIATED AND SILICA FLOODED
PY ASSOCIATED WITH SILICA AS A BRECCIA FILLING

FROM 189.00MT. TO 191.50MT. the same as 188.30MT. to 189.00MT. except as noted

SPHERULITE CONTENT INCREASES WITH SLIGHT BANDING OVER LAST 50CM

FROM 191.50MT. TO 192.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
5% QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
RAGGED EDGED FRAGMENTS

FROM 192.00MT. TO 192.64MT. the same as 191.50MT. to 192.00MT. except as noted

FROM 192.64MT. TO 194.20MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 035,
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 194.20MT. TO 194.70MT.
green grey FINE RHYOLITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 035,
.01% QUARTZ VEINING as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
ALINGMENT OF FRAGMENTS AT MARGINS -LAPILLI FLOW

FROM 194.70MT. TO 195.00MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 065,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
CONTACT SLICKENSIDED
SECTION IS SLIGHTLY BRECCIATED AND IRREGULARILY BANDED IN PLACES

FROM 195.00MT. TO 195.88MT. the same as 194.70MT. to 195.00MT. except as noted

FROM 195.88MT. TO 197.10MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 030,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
100 PC. recovered core in this interval
FRAGMENTS BECOME COARSER TOWARD BOTTOM

FROM 197.10MT. TO 198.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 055,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
BELOW 198M, TUFF GRADES INTO A X-TAL TUFF OVER 50 TO 70 CM
AND THEN BACK TO A TUFF FROM 200.2 TO 200.8 METERS

FROM 198.00MT. TO 200.70MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 200.70MT. TO 201.00MT.
green grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
PARTIALLY BRECCIATED

FROM 201.00MT. TO 204.00MT. the same as 200.70MT. to 201.00MT. except as noted

? QUARTZ FLOODING as framework crystals
.3% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval

FROM 204.00MT. TO 207.70MT. the same as 200.70MT. to 201.00MT. except as noted

A001

AUMN	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	68724	0.03	0.03	2	
A001	600	900	68725	0.02	0.03	2	
A001	900	1200	68726	-0.02	0.04	2	
A001	1200	1500	68727	-0.02	0.04	1	
A001	1500	1800	68728	-0.02	0.03	2	
A001	1800	2100	68729	0.03	0.04	1	
A001	2100	2400	68730	0.02	-0.02	1	
A001	2400	2700	68731	-0.02	-0.02	2	
A001	2700	3000	68732	0.02	-0.02	4	
A001	3000	3300	68733	0.03	-0.02	4	
A001	3300	3600	68734	0.02	-0.02	2	
A001	3600	3900	68735	0.02	-0.02	2	
A001	3900	4200	68736	0.04	-0.02	11	
A001	4200	4500	68737	0.04	-0.02	23	
A001	4500	4800	68738	0.04	-0.02	21	
A001	4800	5100	68739	0.02	-0.02	11	
A001	5100	5400	68740	0.03	-0.02	6	
A001	5400	5700	68741	0.02	-0.02	7	
A001	5700	6000	68742	0.03	-0.02	4	
A001	6000	6300	68743	0.02	-0.02	4	
A001	6300	6600	68744	0.03	-0.02	2	
A001	6600	6900	68745	0.04	-0.02	1	
A001	6900	7200	68746	0.04	-0.02	4	
A001	7200	7500	68747	0.04	-0.02	9	
A001	7500	7800	68748	0.08	-0.02	13	
A001	7800	8100	68749	0.36	0.09	37	
A001	8100	8400	68750	0.28	0.17	160	
A001	8400	8700	68751	0.13	-0.02	52	
A001	8700	9000	68752	0.08	-0.02	26	
A001	9000	9300	68753	0.07	-0.02	14	
A001	9300	9600	68754	0.05	-0.02	24	
A001	9600	9900	68755	0.04	-0.02	17	
A001	9900	10200	68756	0.05	-0.02	18	
A001	10200	10500	68757	0.05	-0.02	32	

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A001 10500 10800     68758  0.02 -0.02    23
A001 10800 11100     68759  0.03 -0.02    15
A001 11100 11400     68760  0.04 -0.02    25
A001 11400 11700     68761  0.05  0.02    26
A001 11700 12000     68762  0.05  0.02    24
A001 12000 12300     68763  0.08  0.03    48
A001 12300 12600     68764  0.08  0.03    34
A001 12600 12900     68765  0.03  0.03    22
A001 12900 13200     68766  0.08  0.04    29
A001 13200 13500     68767  0.08  0.04    31
A001 13500 13800     68768  0.08  0.04    46
A001 13800 14100     68769  0.09  0.02    30
A001 14100 14400     68770  0.05 -0.02    18
A001 14400 14700     68771  0.06 -0.02    28
A001 14700 15000     68772  0.06 -0.02    17
A001 15000 15300     68773  0.10 -0.02    27
A001 15300 15600     68774  0.55  0.10   130
A001 15600 15900     68775  0.10  0.05    28
A001 15900 16200     68776  0.20  0.05    26
A001 16200 16500     68777  0.11  0.05    25
A001 16500 16800     68778  0.10 -0.02    28
A001 16800 17100     68779  0.11  0.03    50
A001 17100 17400     68780  0.47  0.20    64
A001 17400 17700     68781  0.17  0.05    34
A001 17700 10000     68782  0.17 -0.02    40
A001 18000 18300     68783  0.90  0.23    62
A001 18300 18600     68784  0.10  0.03    40
A001 18600 18900     68785  0.12  0.07    28
A001 18900 19200     68786  0.15  0.14    40
A001 19200 19500     68787  0.13  0.11    38
A001 19500 19800     68788  0.23  0.10    44
A001 19800 20100     68789  0.17  0.11    44
A001 20100 20400     68790  0.25  0.18    62
A001 20400 20770     68791  0.29  0.11    40
/END
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HOLE APRDD013NQWL GRID NORTH 9879.31 GRID EAST10123.93
GRID AZIMUTH OF HOLE 0.00 VERTICAL ANGLE -90.00
TRUE AZIMUTH OF HOLE 0
TOTAL DEPTH OF HOLE: 160.33mt.
  Logged by: MMM on (day/mo/yr)... JUN81

FROM 0.00MT. TO 3.00MT.
                   OVERBURDEN

FROM 3.00MT. TO 6.00MT.
                   dark grey COARSE RHYOLITE TUFF
                   Textures noted: , EQUIGRANULAR
                   .01% QUARTZ VEINING as microveins
                   ? QUARTZ FLOODING as framework crystals
                   10% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
     90 PC. recovered core in this interval
             HEAVY LIMONITE STAINING ON FRACTURES, BLEACHED ENVELOPES ABOUT
              LIMONITE DUE TO ROBBING OF PYRITE
             POSSIBLE DISTORTED SNOWFLAKE SPHERULITES
             CORE IS QUITE WEATHERED AND RUBBLY
             PYRITE CONTENT ESTIMATED AT CLOSE TO 15%

FROM 6.00MT. TO 6.10MT. the same as 3.00MT. to 6.00MT. except as noted

FROM 6.10MT. TO 9.00MT.
                   dark grey FINE RHYOLITE TUFF
                   Textures noted: , EQUIGRANULAR
                   .03% QUARTZ VEINING as microveins
                   ? QUARTZ FLOODING as framework crystals
                   10% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
     40 PC. recovered core in this interval
             VARIABLY BANDED. PYRITE VERY FINELY DISSEMINATED AND APPEARS AS
              DARK PATCHES IN THE CORE
             HEAVY SILICA FLOODING, ESTIMATES ARE DIFFICULT

FROM 9.00MT. TO 12.00MT. the same as 6.10MT. to 9.00MT. except as noted

                   Textures noted: BRECCIATED
             ROCK IS VARIABLY BRECCIATED. BRECCIATED SECTIONS HEAVILY FLOODED
              WITH PYRITE AND SILICA. MORE COMPETANT SECTIONS ARE PALE GREEN.

FROM 12.00MT. TO 13.16MT. the same as 6.10MT. to 9.00MT. except as noted

FROM 13.16MT. TO 13.90MT.
                   green grey FINE RHYODACITE TUFF
                   Textures noted: , EQUIGRANULAR
                   Structures noted: CONTACT (straight) dip 040,
                   .03% QUARTZ VEINING as microveins
                   .3% CARBONATES as microveins
                   .01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
                   .03% CHLORITE as spots
     95 PC. recovered core in this interval

FROM 13.16MT. TO 13.90MT. 20% of this subinterval is
GOUGE
CHLORITIC SLICKENSIDED FAULTS THROUGH SECTION

FROM 13.90MT. TO 15.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
AGGLOMERITIC AS FRAGMENTS ARE PACKED TOGETHER WITH AN ALTERED
GLASSY MATRIX

FROM 15.00MT. TO 18.00MT. the same as 13.90MT. to 15.00MT. except as noted

SECTION APPARENTLY COARSENS DOWN SECTION

FROM 18.00MT. TO 19.24MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MATRIX SUPPORTED ASSEMBLAGE OF ROUNDED RHYOLITIC FRAGMENTS IN A
DARK RHYODACITIC MATRIX

FROM 19.24MT. TO 21.00MT.
green grey COARSE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
WHITE IRREGULAR PATCHES- 40%- POSSIBLE AGGREGATES OF SPHERULITES
SI FLOODIND, PERCENTAGE DIFFICULT TO ESTIMATE

FROM 21.00MT. TO 23.40MT. the same as 19.24MT. to 21.00MT. except as noted

BECOMES PARTIALLY BRECCIATED WITH A FEW FRAGMENTS TOWARDS THE
END OF THE SECTION

FROM 23.40MT. TO 24.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
MORE OF A BRECCIATED TUFF WITH SOME FRAGMENTS. BANDED IN SECTION
FAULT at 23.69 MT.

FROM 23.69MT. TO 23.70MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 050,

FROM 24.00MT. TO 25.50MT. the same as 23.40MT. to 24.00MT. except as noted

FROM 25.50MT. TO 27.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
FRAGMENT SIZE DECREASES DOWN SECTION WITH A LARGE AMOUNT OF DARK
MATRIX TOWARDS THE END. HIGHLY SILICEOUS AND PYRITIC
SHEAR at 26.20 MT.

FROM 26.20MT. TO 26.40MT. 100% of this subinterval is the same as 25.50MT. to 27.00MT. except as noted

Structures noted: CONTACT (irregular) ,

FROM 27.00MT. TO 27.58MT. the same as 25.50MT. to 27.00MT. except as noted

FROM 27.58MT. TO 30.00MT.
dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 045,
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
QTZ-FLOODED AND PYRITIC FRAGMENTAL (MORE PYRITIC THAN LAST
SECTION - (15%). FRAGMENTS ARE BANDED

FROM 30.00MT. TO 33.00MT. the same as 27.58MT. to 30.00MT. except as noted

FRAGMENTS LIGHTER GREEN DOWN SECTION

FROM 33.00MT. TO 36.00MT. the same as 27.58MT. to 30.00MT. except as noted

FROM 36.00MT. TO 39.00MT. the same as 27.58MT. to 30.00MT. except as noted

20% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING

100 PC. recovered core in this interval

FRAGMENTS FINING DOWN SECTION

FROM 39.00MT. TO 41.55MT. the same as 27.58MT. to 30.00MT. except as noted

SECTION IS AS ABOVE BUT FRAGMENTS ARE LARGER FROM 38.41M ON

DYKE at 41.55 MT.

FROM 41.55MT. TO 42.00MT.

green grey ANDESITE FLOW OR DYKE

Textures noted: , EQUIGRANULAR , AMYGDALOIDAL

Structures noted: CONTACT (irregular) dip 020,

.03% QUARTZ VEINING as microveins

.1% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals

.03% ZEOLITE as microveins

.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

100 PC. recovered core in this interval

UPPER CONTACT FAULTED WITH SOME GOUGE

FINES AT CONTACTS, AMYGDALOIDAL- SHALLOW DIKE OR FLOW

FAULT at 41.55 MT.

FROM 41.55MT. TO 41.57MT. 100% of this subinterval is

GOUGE

Structures noted: CONTACT (irregular) dip 020,

FROM 42.00MT. TO 45.00MT.

dark grey FINE RHYOLITE FRAGMENTAL TUFF

Textures noted: BRECCIATED , AGGLOMERITIC

Structures noted: CONTACT (irregular) ,

.03% QUARTZ VEINING as microveins

? QUARTZ FLOODING as framework crystals

.03% CARBONATES as microveins

.03% ZEOLITE as microveins

1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING

100 PC. recovered core in this interval

AS ABOVE THE ANDESITE BUT WITH LESS PY AND A DIFFERENT CF/FF

FROM 45.00MT. TO 48.00MT. the same as 42.00MT. to 45.00MT. except as noted

FAULT at 45.00 MT.

FROM 45.00MT. TO 45.20MT. 60% of this subinterval is
GOUGE

FROM 48.00MT. TO 51.00MT. the same as 42.00MT. to 45.00MT. except as noted
green grey
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
FRAGMENTS COARSEN DOWN SECTION

FROM 51.00MT. TO 54.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
FRAGMENTS ESSENTIALLY MONOLITHIC RHYOLITE WITH DARK RIMS (ALT'N)

FROM 54.00MT. TO 57.00MT. the same as 51.00MT. to 54.00MT. except as noted

1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
SOFTER PYRITIC MATRIX - ALTERED GLASS
FAULT at 55.45 MT.

FROM 55.45MT. TO 55.46MT. 100% of this subinterval is the same as 51.00MT. to 54.00MT. except as noted
GOUGE
Structures noted: CONTACT (straight) dip 080,

FROM 57.00MT. TO 60.00MT. the same as 51.00MT. to 54.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval
MATRIX SOFT IN PARTS, ALTERED GLASS

FROM 60.00MT. TO 60.25MT. the same as 51.00MT. to 54.00MT. except as noted

FROM 60.25MT. TO 62.49MT.
green grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) dip 010, BANDING (irregular)
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
HEMATITE STAINING DEFINES BANDING
ROCK IS DEFORMED, CHEVRON FOLDS OVER 10CM

FROM 62.49MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 045,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
CONTAINS HEMATITE STAINED FRAGMENTS FROM PREVIOUS SECTION

FROM 63.00MT. TO 65.75MT. the same as 62.49MT. to 63.00MT. except as noted

FROM 65.75MT. TO 66.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 050,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
100 PC. recovered core in this interval
DACITE - BLUE QTZ-EYES AND MINOR SPHERULITES
ALTERATION ENVELOPES ON MICROVEINS WITH PYRITE

FROM 66.00MT. TO 66.25MT. the same as 65.75MT. to 66.00MT. except as noted

FROM 66.25MT. TO 69.00MT.
green grey FINE DACITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
.01% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
DACITE X-TAL TUFF (DYKE) -SOFTER AND MORE CHLORITIC THAN
RHYODACITIC VERSION
FAULT CONTACTED AT TOP WITH SLICKENSIDING AND CHLORITE.

FROM 69.00MT. TO 69.80MT. the same as 66.25MT. to 69.00MT. except as noted

FROM 69.80MT. TO 70.55MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. envel.& perv./dis. min'l
100 PC. recovered core in this interval
FINE INDISTINCT CONTACT

FROM 70.55MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SMOOTH BUT WAVY CONTACT WITH BLEACHING AT MARGIN (FINE AT MARGIN
DACITE ABOVE APPEARS TO BE A DYKE
HEAVY PY IN PLACES IN THE FRAGMENTAL
FAULT at 70.90 MT.

FROM 70.90MT. TO 71.20MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 72.00MT. TO 75.00MT. the same as 70.55MT. to 72.00MT. except as noted

MATRIX GENERALLY SOFT AND CHLORITIC
FAULT at 74.50 MT.

FROM 74.50MT. TO 74.52MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 070,

FROM 75.00MT. TO 78.00MT. the same as 70.55MT. to 72.00MT. except as noted

FROM 78.00MT. TO 81.00MT. the same as 70.55MT. to 72.00MT. except as noted

FROM 81.00MT. TO 84.00MT. the same as 70.55MT. to 72.00MT. except as noted

SHEAR at 81.00 MT.

FROM 81.00MT. TO 84.00MT. 30% of this subinterval is
GOUGE
SOFT ALTERED MATRIX

FROM 84.00MT. TO 87.00MT. the same as 70.55MT. to 72.00MT. except as noted

FROM 87.00MT. TO 89.75MT. the same as 70.55MT. to 72.00MT. except as noted

DYKE at 89.75 MT.

FROM 89.75MT. TO 90.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (straight) dip 050,
.01% QUARTZ VEINING as microveins
1% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.03% ZEOLITE as amydaloids, cavity fillings
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
LARGE BLACK SPOTS (.5 TO 1CM) OF CHLORITE(?). POSSIBLY VESICLE
FILLINGS. ALSO AMYGDULES OF CALCITE AND ZEOLITE

FROM 90.00MT. TO 90.90MT. the same as 89.75MT. to 90.00MT. except as noted

FROM 90.90MT. TO 93.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 040,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SLIGHTLY SHEARED/FAULTED CONTACT

FROM 93.00MT. TO 93.42MT. the same as 90.90MT. to 93.00MT. except as noted

FROM 93.42MT. TO 95.50MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.3% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 95.50MT. TO 96.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 065,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval

FROM 96.00MT. TO 99.00MT. the same as 95.50MT. to 96.00MT. except as noted

2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval

FROM 99.00MT. TO 102.00MT. the same as 95.50MT. to 96.00MT. except as noted

.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval
FRAGMENTS MORE COMPACTED, LESS BRECCIA FILLING

FROM 102.00MT. TO 105.00MT. the same as 95.50MT. to 96.00MT. except as noted

FROM 105.00MT. TO 108.00MT. the same as 95.50MT. to 96.00MT. except as noted

FROM 108.00MT. TO 111.00MT. the same as 95.50MT. to 96.00MT. except as noted

FROM 111.00MT. TO 114.00MT. the same as 95.50MT. to 96.00MT. except as noted

SECTION SOFT AND CHEWED UP FROM 111.50 TO 113.50
NO APPARENT GENERAL TREND IN COARSE FRACTION
FAULT at 111.50 MT.

FROM 111.50MT. TO 113.50MT. 30% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 114.00MT. TO 117.00MT. the same as 95.50MT. to 96.00MT. except as noted

FAULT at 116.90 MT.

FROM 116.90MT. TO 117.00MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 117.00MT. TO 120.00MT. the same as 95.50MT. to 96.00MT. except as noted

FROM 120.00MT. TO 123.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
90 PC. recovered core in this interval
BANDED SPHERULITIC FRAGMENTS WITH A SOFT ALTERED MATRIX

FROM 123.00MT. TO 126.00MT. the same as 120.00MT. to 123.00MT. except as noted

FROM 126.00MT. TO 126.75MT. the same as 120.00MT. to 123.00MT. except as noted

FROM 126.75MT. TO 129.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 055,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
LARGE IRREGULAR PATCHES (1-1.5CM) OF QUARTZ -BLUE

FROM 129.00MT. TO 129.46MT. the same as 126.75MT. to 129.00MT. except as noted

FROM 129.46MT. TO 132.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 055,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
80 PC. recovered core in this interval
SOFT CHLORITIC MATRIX
FAULT at 129.75 MT.

FROM 129.75MT. TO 129.85MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 060,
LOSS OF 50 CM UPTO 131.22 METERS

FROM 132.00MT. TO 135.00MT. the same as 129.46MT. to 132.00MT. except as noted

FAULT at 132.40 MT.

FROM 132.40MT. TO 132.70MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 135.00MT. TO 138.00MT. the same as 129.46MT. to 132.00MT. except as noted

FROM 138.00MT. TO 138.20MT. the same as 129.46MT. to 132.00MT. except as noted

FROM 138.20MT. TO 141.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 060,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
80 PC. recovered core in this interval
SHEARED CONTACT-SHARP

FROM 141.00MT. TO 144.00MT. the same as 138.20MT. to 141.00MT. except as noted

SHEAR at 141.70 MT.

FROM 141.70MT. TO . MT. 100% of this subinterval is the same as 138.20MT. to 141.00MT. except as noted
green grey
Structures noted: CONTACT (straight) dip 055,

FROM 144.00MT. TO 147.00MT. the same as 138.20MT. to 141.00MT. except as noted

? QUARTZ FLOODING as framework crystals
100 PC. recovered core in this interval

FROM 147.00MT. TO 148.33MT. the same as 138.20MT. to 141.00MT. except as noted

DYKE at 148.33 MT.

FROM 148.33MT. TO 150.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 040,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SHEARED/FAULTED CONTACT, ZEOLITE VEINS UP TO 5MM
SHEAR at 148.33 MT.

FROM 148.33MT. TO 148.77MT. 100% of this subinterval is the same as 148.33MT. to 150.00MT. except as noted

Structures noted: CONTACT (straight) dip 080,

FROM 150.00MT. TO 151.55MT. the same as 148.33MT. to 150.00MT. except as noted

SHEAR at 150.90 MT.

FROM 150.90MT. TO 151.55MT. 100% of this subinterval is the same as 148.33MT. to 150.00MT. except as noted

20% ZEOLITE as breccia fillings

FROM 151.55MT. TO 153.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 085,
.1% QUARTZ VEINING as microveins
5% QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MINOR FAULTS, SLICKENSIDED AND CHLORITIC

FROM 153.00MT. TO 155.45MT. the same as 151.55MT. to 153.00MT. except as noted

FROM 155.45MT. TO 156.00MT.
very dark grey COARSE SEDIMENTS
Textures noted: BRECCIATED
Structures noted: CONTACT (irregular) dip 080,
20% QUARTZ VEINING as breccia fillings
.03% CARBONATES as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
COARSE FRAGMENTS OF FINE GRAINED BLACK CHERT

FROM 156.00MT. TO 157.00MT. the same as 155.45MT. to 156.00MT. except as noted

FROM 157.00MT. TO 159.00MT.
very dark grey FINE SEDIMENTS
Textures noted: BRECCIATED , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
1% QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
BLACK RHYODACITIC EDICLASTIC TUFF
PY AS SCATTERED CUBES AND AS VERY FINE DISSEMINATIONS

FROM 159.00MT. TO 159.80MT. the same as 157.00MT. to 159.00MT. except as noted

FROM 159.80MT. TO 160.33MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	300	600	68793	4	2.21	260	
A001	600	900	68794	0.88	0.49	160	

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A001   900  1200    68795  0.96  0.12  270
A001  1200  1500    68796  0.43  0.11   70
A001  1500  1800    68797  0.33  0.22   52
A001  1800  2100    68798  0.76  0.56   48
A001  2100  2400    68799  0.43  0.26   50
A001  2400  2700    68800  1.23  0.65  200
A001  2700  3000    68801  1.68  0.18  350
A001  3000  3300    68802  3.36  0.17  320
A001  3300  3600    68803  1.01  0.16  160
A001  3600  3900    68804  2.62  0.20  370
A001  3900  4200    68805  0.50 -0.02   50
A001  4200  4500    68806  0.40 -0.02   60
A001  4500  4800    68807  1.18 -0.02  170
A001  4800  5100    68808  0.51 -0.02   70
A001  5100  5400    68809  0.16 -0.02   27
A001  5400  5700    68810  0.24 -0.02   48
A001  5700  6000    68811  0.09 -0.02   42
A001  6000  6300    68812  0.08 -0.02   38
A001  6300  6600    68813  0.17  0.10   52
A001  6600  6900    68814  0.05  0.02   24
A001  6900  7200    68815  0.16  0.02   24
A001  7200  7500    68816  0.30  0.03   38
A001  7500  7800    68817  1.37  0.86  220
A001  7800  8100    68818  0.75  0.48  110
A001  8100  8400    68819  0.12  0.03   38
A001  8400  8700    68820  0.24  0.08   46
A001  8700  9000    68821  0.19  0.04   42
A001  9000  9300    68822  0.13  0.04   26
A001  9300  9600    68823  0.10  0.03   14
A001  9600  9900    68824  0.19  0.06   24
A001  9900 10200    68825  0.05  0.03   19
A001 10200 10500    68826  0.06  0.03   19
A001 10500 10800    68827  0.46  0.17   58
A001 10800 11100    68828  0.09  0.03   38
A001 11100 11400    68829  0.17  0.08   34
A001 11400 11700    68830  0.09  0.10   38
A001 11700 12000    68831  0.20  0.13   42
A001 12000 12300    68832  0.57  0.62   56
A001 12300 12600    68833  0.33  0.30   44
A001 12600 12900    68834 -0.02  0.04   18
A001 12900 13200    68835  0.09  0.07    8
A001 13200 13500    68836  0.05  0.05   14
A001 13500 13800    68837  0.14  0.15   40
A001 13800 14100    68838  0.16  0.18   44
A001 14100 14400    68839  0.13  0.11   44
A001 14400 14700    68840  0.18  0.14   40
A001 14700 15000    68841  0.10  0.10   16
A001 15000 15300    68842  0.15  0.04    9
A001 15300 15600    68843  0.71  0.35   71
A001 15600 15900    68844  3.50  0.28   82
A001 15900 16029    68845  1.75  0.05   37
/END
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HOLE APRDD014NQWL GRID NORTH 9880.01 GRID EAST10123.88
GRID AZIMUTH OF HOLE 355.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 355
TOTAL DEPTH OF HOLE: 163.37mt.
Logged by: MMW on (day/mo/yr)... JUN81

FROM 0.00MT. TO 6.00MT.
OVERBURDEN

FROM 6.00MT. TO 7.32MT.
med. dark grey MEDIUM RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
5% ZEOLITE as microveins
10% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
70 PC. recovered core in this interval
LIMONITE STAINED FRACTURES WITH BLEACHED (FE ROBBED) ENVELOPES
AS IN THE TOP OF DDH-13
SILICA FLOODING BUT AMOUNT IS UNCERTAIN

FROM 7.32MT. TO 9.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
40 PC. recovered core in this interval
WEATHERED VERSION OF THIS ROCK- LIGHTER GREEN, WEAKLY MAGNETIC
SAME AS MATERIAL IN TOPS OF DDH'S 9, 10, 11, 12

FROM 9.00MT. TO 12.00MT. the same as 7.32MT. to 9.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 7.32MT. to 9.00MT. except as noted

FROM 15.00MT. TO 16.49MT. the same as 7.32MT. to 9.00MT. except as noted

PROBABLE SHEAR ZONE FROM 15 TO 16.49 ACCOUNTING FOR POOR CORE
RECOVERY
ALL OF THE ABOVE 10.49 METERS IS BLOCKY WITH POOR RECOVERY

FROM 16.49MT. TO 18.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 075,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in this interval

SHEARED CONTACT OVER 30 CM
at 16.99 MT.

FROM 16.99MT. TO 16.99MT. 100% of this subinterval is the same as 16.49MT. to 18.00MT. except as noted

Structures noted: CONTACT (straight) dip 050,

FROM 18.00MT. TO 18.75MT. the same as 16.49MT. to 18.00MT. except as noted

FROM 18.75MT. TO 20.12MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 035,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
90 PC. recovered core in this interval
FRAGMENTS WITH INDISTINCT EDGES
SMALL COMPETANT CHLORITIC SHEARS OVER 2 TO 4 CM
SHEAR at 19.50 MT.

FROM 19.50MT. TO 19.70MT. 100% of this subinterval is the same as 18.75MT. to 20.12MT. except as noted

Structures noted: CONTACT (irregular) ,

FROM 20.12MT. TO 21.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SOME RHYOLITIC FRAGMENTS INCLUDED BELOW CONTACT

FROM 21.00MT. TO 24.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SOMEWHAT BRECCIATED IN PLACES WITH SOME HEMATITE STAINING IN
FRACTURE FILLINGS

FROM 23.10MT. TO 23.15MT. 100% of this subinterval is the same as 21.00MT. to 24.00MT. except as noted

80% ZEOLITE as microveins

FROM 24.00MT. TO 27.00MT. the same as 21.00MT. to 24.00MT. except as noted

FROM 27.00MT. TO 28.90MT. the same as 21.00MT. to 24.00MT. except as noted

LAST METER OF SECTION IS RUBBLY AND SHOT THROUGH WITH ZEOLITE

FROM 28.90MT. TO 29.26MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 29.26MT. TO 30.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 015,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 30.00MT. TO 30.82MT. the same as 29.26MT. to 30.00MT. except as noted

FROM 30.82MT. TO 33.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 020,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [illegible] FLOODING
100 PC. recovered core in this interval
FRAGMENTS ARE SPHERULITIC. FINELY DISSEMINATED PY ASSOCIATED
WITH SILICA FLOODING
POSSIBLE BRECCIATED TUFF, FRAGMENTS MUCH THE SAME

FROM 33.00MT. TO 36.00MT. the same as 30.82MT. to 33.00MT. except as noted

FROM 36.00MT. TO 37.60MT. the same as 30.82MT. to 33.00MT. except as noted

DEFINATE FRAGMENTAL OVER LAST METER, SOME RED BANDED FRAGMENTS

FROM 37.60MT. TO 39.00MT.
dark grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) dip 015,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
PROBABLE EPICLASTIC ASSORTMENT

FROM 38.50MT. TO 38.80MT. 100% of this subinterval is
very dark grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (straight) dip 025,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microvoins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
TOP CONTACT FAULTED, BOTTOM CONTACT FAULTED AT 030 DEGREES
BLACK CARBON CHERT, BUT SOFT- SCRATCHES WHITE?
FAULT at 38.50 MT.

FROM 38.50MT. TO 38.51MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 025,

FROM 39.00MT. TO 40.54MT. the same as 37.60MT. to 39.00MT. except as noted

FROM 40.54MT. TO 41.49MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
FINES DOWN, NO APPARENT CONTACT AT TOP (OBSCURED BY RUBBLE)

FROM 41.49MT. TO 42.00MT.
very dark grey FINE RHYOLITE FRAGMENTAL TUFF
Structures noted: CONTACT (irregular) dip 020,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
POSSIBLE CARBON CHERT WITH RHYOLITIC FRAGMENTS

FROM 42.00MT. TO 42.10MT. the same as 41.49MT. to 42.00MT. except as noted

FROM 42.10MT. TO 45.00MT.
dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
AS FROM 37.60 TO 40.54 BUT SOFTER AND MORE ALTERED MATRIX

FROM 45.00MT. TO 46.79MT. the same as 42.10MT. to 45.00MT. except as noted

FROM 46.79MT. TO 48.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SILICA AND PYRITE FLOODING IN BRECCIATED RHYOLITE TUFF

FROM 48.00MT. TO 49.10MT. the same as 46.79MT. to 48.00MT. except as noted

FROM 49.10MT. TO 50.30MT.
very dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
APPEARS AS A DARK SILICEOUS SEDIMENT WITH HEAVY PYRITE AS
FRACTURE FILLINGS, A-FEW MINOR FRAGMENTS
SIMILAR TO BLACK ROCK IN OUTCROP WP-7, POSSIBLE INTRUSIVE
NOTED SOME CLEAR ACICULAR CRYSTALS (3X.3MM)
MINOR BRECCIATION AT 50 METERS, BOTTOM CONTACT FAULTED
SHEAR at 50.20 MT.

FROM 50.20MT. TO 50.30MT. 100% of this subinterval is the same as 49.10MT. to 50.30MT. except as noted

CHLORITIC SHEAR

FROM 50.30MT. TO 51.00MT.
med. dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (straight) dip 060,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% MAGNETITE as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% ZEOLITE as breccia fillings
100 PC. recovered core in this interval
AS FROM 37.60 TO 40.54 WITH SOFT ALTERED MATRIX

FROM 51.00MT. TO 53.75MT. the same as 50.30MT. to 51.00MT. except as noted

DYKE at 53.75 MT.

FROM 53.75MT. TO 54.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as spots
100 PC. recovered core in this interval
FINE TOP MARGIN, NON-MAGNETIC, ROUND SPOTS OF CHLORITE (1-2MM)
BOTTOM CONTACT NOT DEFINED

FROM 54.00MT. TO 57.00MT.
ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 57.00MT. TO 60.00MT. the same as 54.00MT. to 57.00MT. except as noted

FROM 60.00MT. TO 63.00MT. the same as 54.00MT. to 57.00MT. except as noted

FROM 63.00MT. TO 66.00MT. the same as 54.00MT. to 57.00MT. except as noted

FROM 66.00MT. TO 69.00MT. the same as 54.00MT. to 57.00MT. except as noted

Textures noted: , EQUIGRANULAR

FROM 69.00MT. TO 69.50MT. the same as 54.00MT. to 57.00MT. except as noted

NON-MAGNETIC CLOSE TO CONTACT

FROM 69.50MT. TO 72.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 050,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
DISTINCT MULTILITHIC RHYOLITE FRAGMENTS IN VERY PYRITIC AND
SILICA FLOODED MATRIX - AU POTENTIAL ROCK

FROM 72.00MT. TO 75.00MT. the same as 69.50MT. to 72.00MT. except as noted

FROM 75.00MT. TO 78.00MT. the same as 69.50MT. to 72.00MT. except as noted

FRAGMENTS FINE DOWN WITH MATRIX BECOMING GENERALLY LESS PYRITIC

FROM 78.00MT. TO 79.20MT. the same as 69.50MT. to 72.00MT. except as noted

5% QUARTZ (brx. or interfrag. fill) as breccia fillings

FROM 79.20MT. TO 81.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Textures noted: , AGGLOMERITIC
1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
SOME FRAGMENTS SHOW REACTION RIMS AND FRAGMENTS ARE GENERALLY
LIGHT GREEN AND DACITIC - SOME PARTIALLY & OCCASSIONALLY TOTALY
REPLACED BY PY

FROM 81.00MT. TO 81.34MT. the same as 79.20MT. to 81.00MT. except as noted

ALTERED MATRIX TOWARDS LOWER CONTACT WITH INCLUSION OF FRAGMENTS
FROM LOWER ROCK

FROM 81.34MT. TO 84.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 050,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CLOSE-PACKED AGGLOMERATE

FROM 82.45MT. TO 84.00MT. 100% of this subinterval is the same as 81.34MT. to 84.00MT. except as noted

Textures noted: BRECCIATED

FROM 84.00MT. TO 84.96MT. the same as 81.34MT. to 84.00MT. except as noted

FROM 84.66MT. TO 84.96MT. 100% of this subinterval is the same as 81.34MT. to 84.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING

FROM 84.96MT. TO 87.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 060,
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
AS FROM 53.75 TO 69.50 METERS
MINOR BRECCIATION AT TOP CONTACT- POSSIBLE SHEAR

FROM 87.00MT. TO 90.00MT. the same as 84.96MT. to 87.00MT. except as noted

ONE 3.5CM VEIN OF CARBONATE AT 88.85 METERS - BARREN

FROM 90.00MT. TO 93.00MT. the same as 84.96MT. to 87.00MT. except as noted

.3% CARBONATES as microveins
.03% ZEOLITE as microveins
CORE BECOMES FINE GRAINED

FROM 93.00MT. TO 96.00MT. the same as 84.96MT. to 87.00MT. except as noted

FROM 96.00MT. TO 99.00MT. the same as 84.96MT. to 87.00MT. except as noted

FROM 99.00MT. TO 102.00MT. the same as 84.96MT. to 87.00MT. except as noted

FROM 102.00MT. TO 105.00MT. the same as 84.96MT. to 87.00MT. except as noted

CORE COARSENS AGAIN

FROM 105.00MT. TO 108.00MT. the same as 84.96MT. to 87.00MT. except as noted

CORE FINES OUT AGAIN
THIS WHOLE SECTION APPEARS AS A SERIES OF ANDESITE TO DACITE
TUFFS AND FLOWS- SOME IRREGULAR FLOW CONTACTS ARE VISIBLE WHERE
UNOBSCURED BY RUBBLY CORE

FROM 108.00MT. TO 111.00MT. the same as 84.96MT. to 87.00MT. except as noted

FROM 111.00MT. TO 114.00MT. the same as 84.96MT. to 87.00MT. except as noted

FROM 114.00MT. TO 117.00MT. the same as 84.96MT. to 87.00MT. except as noted

SHEARED CONTACT FROM 115.00 TO 117.50 METERS - SOME MINOR
BRECCIATION. CONTACT RUNS ALONG CORE AND MOVEMENT APPEARS MINOR

FROM 117.00MT. TO 119.25MT. the same as 84.96MT. to 87.00MT. except as noted

FAULT at 118.90 MT.

FROM 118.90MT. TO 119.25MT. 70% of this subinterval is
GOUGE
GOUGE ZONE AT LOWER CONTACT

FROM 119.25MT. TO 120.00MT.
med. dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SHARP BUT IRREGULAR CONTACT BETWEEN FRAGMENTAL AND GOUGE
SOME MINOR CHLORITIC BANDS

FROM 120.00MT. TO 123.00MT. the same as 119.25MT. to 120.00MT. except as noted

FROM 123.00MT. TO 126.00MT. the same as 119.25MT. to 120.00MT. except as noted

FROM 126.00MT. TO 129.00MT. the same as 119.25MT. to 120.00MT. except as noted

VERY RUBBLY SECTION BUT WITH GOOD RECOVERY

FROM 129.00MT. TO 131.07MT. the same as 119.25MT. to 120.00MT. except as noted

AS ABOVE, VERY RUBBLY
FAULT at 130.75 MT.

FROM 130.75MT. TO 131.07MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 131.07MT. TO 132.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
WELL BRECCIATED RHYOLITE TUFF

FROM 132.00MT. TO 136.80MT. the same as 131.07MT. to 132.00MT. except as noted

at 132.74 MT.

FROM 132.74MT. TO 133.64MT. 100% of this subinterval is
MISSING CORE

FROM 136.80MT. TO 138.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
90 PC. recovered core in this interval

FROM 138.00MT. TO 138.08MT. the same as 136.80MT. to 138.00MT. except as noted

FROM 138.08MT. TO 140.82MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
MORE COMPETANT THAN PREVIOUS TUFF SECTION, BUT STILL BRECCIATED

FROM 140.82MT. TO 141.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 141.00MT. TO 144.00MT. the same as 140.82MT. to 141.00MT. except as noted

FROM 144.00MT. TO 147.00MT. the same as 140.82MT. to 141.00MT. except as noted
green grey
GRADES INTO OPEN FRAMEWORK WITH DARK MATRIX
CHLORITIC GREE RHYOLITIC FRAGMENTS

FROM 147.00MT. TO 147.50MT. the same as 140.82MT. to 141.00MT. except as noted

FROM 147.50MT. TO 150.00MT.
green grey FINE RHYOLITE BANDED TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) , BANDING (irregular)
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
80 PC. recovered core in this interval
VARIABLY BANDED RHYOLITE TUFF

FROM 150.00MT. TO 150.50MT. the same as 147.50MT. to 150.00MT. except as noted

FROM 150.50MT. TO 153.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in this interval
SOME PATCHY EPIDOTE ASSOCIATED WITH THE FRAGMENTS

FROM 153.00MT. TO 153.40MT. the same as 150.50MT. to 153.00MT. except as noted

FROM 153.40MT. TO 155.40MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CRYSTAL TUFF, BUT PROBABLE DYKE MATERIAL. RUBBLY CONTACT AT TOP
SHARP CONTACT AT BOTTOM
3-4MM RECTANGULAR LATHS - SOME INDISTINCT, SOME SHARP
FELDSPAR-RHYOLITE PORPHYRY

FROM 155.40MT. TO 156.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 050,
.3% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 156.00MT. TO 159.00MT. the same as 155.40MT. to 156.00MT. except as noted

FROM 159.00MT. TO 163.37MT. the same as 155.40MT. to 156.00MT. except as noted

CORE IS RUBBLE FROM 159.00 METERS ON, WITH VERY POOR RECOVERY

A001

AUNM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	600	900	68846	1.61	0.80	150	
A001	900	1200	68847	0.08	0.02	11	
A001	1200	1500	68848	0.07	-0.02	11	
A001	1500	1800	68849	0.17	-0.02	10	
A001	1800	2100	68850	0.19	-0.02	26	
A001	2100	2400	68851	0.08	-0.02	5	
A001	2400	2700	68852	0.05	-0.02	11	
A001	2700	3000	68853	0.29	0.10	14	
A001	3000	3300	68854	1.34		102	9.7
A001	3300	3600	68855	1.71	1.24	173	
A001	3600	3900	68856	1.43	-0.02	184	
A001	3900	4200	68857	0.53	0.20	136	
A001	4200	4500	68858	0.25	0.25	153	
A001	4500	4800	68859	0.40	0.28	126	
A001	4800	5100	68860	1.50	0.97	220	
A001	5100	5400	68861	0.09	-0.02	24	
A001	5400	5700	68862	0.04	-0.02	6	
A001	5700	6000	68863	0.04	-0.02	6	
A001	6000	6300	68864	0.04	-0.02	3	
A001	6300	6600	68865	0.05	-0.02	4	
A001	6600	6900	68866	0.08	-0.02	5	
A001	6900	7200	68867	1.15	1.11	112	
A001	7200	7500	68868	5		420	4.5
A001	7500	7800	68869	5		470	7.5
A001	7800	8100	68870	2.41		218	5.2
A001	8100	8400	68871	0.35	-0.02	110	
A001	8400	8700	68872	0.12	-0.02	13	
A001	8700	9000	68873	0.07	-0.02	5	
A001	9000	9300	68874	0.07	-0.02	4	
A001	9300	9600	68875	0.07	-0.02	25	
A001	9600	9900	68876	0.06	-0.02	5	
A001	9900	10200	68877	0.08	-0.02	8	
A001	10200	10500	68878	0.08	-0.02	4	
A001	10500	10800	68879	0.06	-0.02	7	
A001	10800	11100	68880	-0.02	-0.02	2	
A001	11100	11400	68881	-0.02	-0.02	2	
A001	11400	11700	68882	-0.02	-0.02	5	

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A001 11700 12000     68883  0.06 -0.02    29
A001 12000 12300     68884  0.18 -0.02    24
A001 12300 12600     68885  0.10 -0.02    51
A001 12600 12900     68886  0.18 -0.02    42
A001 12900 13200     68887  0.25  0.05    57
A001 13200 13800     68888  0.16 -0.02    54
A001 13800 14100     68889  0.12 -0.02    36
A001 14100 14400     68890  0.11 -0.02     9
A001 14400 14700     68891  0.10 -0.02     7
A001 14700 15000     68892  0.11 -0.02    11
A001 15000 15300     68893  0.08 -0.02    27
A001 15300 15600     68894  0.08 -0.02    12
A001 15600 15900     68895  0.08  0.05    28
A001 15900 16337     68896  0.10  0.06    58
/END
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HOLE APRDD015NGNL GRID NORTH 9955.67 GRID EAST10183.06
GRID AZIMUTH OF HOLE 260.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 260
TOTAL DEPTH OF HOLE: 210.76mt.
Logged by: MNW on (day/mo/yr)...14JUN81

FROM 0.00MT. TO 3.90MT.
OVERBURDEN

FROM 3.90MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
ANDESITE TO DACITE TUFF- WEATHERED VERSION IS WEAKLY MAGNETIC
WITH DEVELOPMENT OF CHLORITE AND GENERALLY REDUCED CARBONATE
ROCK IS WELL FRACTURED WITH QTZ/CARB/ZEOLITE INFILLINGS
ONLY MINOR AMOUNT OF PYRITE

FROM 6.00MT. TO 9.00MT. the same as 3.90MT. to 6.00MT. except as noted

FAULT at 7.75 MT.

FROM 7.75MT. TO 8.10MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 025,

FROM 9.00MT. TO 12.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 3.90MT. to 6.00MT. except as noted

2CM QTV AT 14.75 METERS

FROM 15.00MT. TO 18.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 18.00MT. TO 21.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 3.90MT. to 6.00MT. except as noted

.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 24.00MT. TO 27.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 27.00MT. TO 30.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 30.00MT. TO 33.00MT. the same as 3.90MT. to 6.00MT. except as noted

.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
3CM QTV AT 30.10METERS (WITH CARBONATE) .BARREN

FROM 33.00MT. TO 36.00MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 36.00MT. TO 39.00MT. the same as 3.90MT. to 6.00MT. except as noted

FAULT at 38.50 MT.

FROM 38.50MT. TO 38.70MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 060,

FROM 39.00MT. TO 40.40MT. the same as 3.90MT. to 6.00MT. except as noted

FROM 40.40MT. TO 42.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
LOOKS PORPHYRITIC - INTRUSIVE MATERIAL (FELDS-RHYL PORPHYRY)
FLOW ALIGNED CRYSTALS AT CONTACT
POSSIBLE VERY FINE SPHERULITES, BLEBBY DISSEMINATED PYRITE
3-4MM PHENOCRYSTS

FROM 42.00MT. TO 44.95MT. the same as 40.40MT. to 42.00MT. except as noted

LOWER CONTACT - UNFAULTED -SOME SLIGHT BANDING IN LOWER ROCK AT
THE CONTACT-POSSIBLE REACTION WITH DYKE MATERIAL

FROM 44.95MT. TO 45.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 010,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 45.00MT. TO 48.00MT. the same as 44.95MT. to 45.00MT. except as noted

FROM 48.00MT. TO 51.00MT. the same as 44.95MT. to 45.00MT. except as noted

FROM 51.00MT. TO 54.00MT. the same as 44.95MT. to 45.00MT. except as noted

5% ZEOLITE as microveins

FROM 54.00MT. TO 57.00MT. the same as 44.95MT. to 45.00MT. except as noted

5% ZEOLITE as microveins

FROM 57.00MT. TO 60.00MT. the same as 44.95MT. to 45.00MT. except as noted

2.5% ZEOLITE as microveins

FROM 60.00MT. TO 63.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
TOP CONTACT OBSCURED BY RUBBLE - PROBABLY FAULTED
MORE PORPHYRITIC MATERIAL BUT WITH LARGER PHENOCRYSTS THAN
PREVIOUS X-TAL TUFF (4-6MM) AND APPEAR RECTANGULAR TO SUB-
RECTANGULAR

FROM 63.00MT. TO 66.00MT. the same as 60.00MT. to 63.00MT. except as noted

FROM 66.00MT. TO 69.00MT. the same as 60.00MT. to 63.00MT. except as noted

BOTTOM CONTACT APPEARS ORIGINAL BUT THERE IS FAULTING WITH A
SMALL AMOUNT OF GOUGE

FROM 69.00MT. TO 72.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SHEAR at 70.40 MT.

FROM 70.40MT. TO 71.00MT. 100% of this subinterval is the same as 69.00MT. to 72.00MT. except as noted

SHEAR ZONE WITH CHLORITE DEVELOPED ON SLICKENSIDED FRACTURES

FROM 72.00MT. TO 75.00MT. the same as 69.00MT. to 72.00MT. except as noted

.3% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
SECTION SHOT THRU WITH ZEOLITE/QTZ/CARB FRACTURE FILLINGS WITH
SOME ASSOCIATED PYRITE

FROM 75.00MT. TO 78.00MT. the same as 69.00MT. to 72.00MT. except as noted

.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveios
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 78.00MT. TO 81.00MT. the same as 69.00MT. to 72.00MT. except as noted

FROM 81.00MT. TO 81.90MT. the same as 69.00MT. to 72.00MT. except as noted

LAST 50CM SHEARED AND PARTIALLY BRECCIATED

FROM 81.90MT. TO 82.40MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as blebs
100 PC. recovered core in this interval
APPEARS AS AN INTRUSION IN A BRECCIA ZONE (SHARP CNCT BETWEEN
ZEOLITIZED BRECCIA AND X-TAL TUFF)

FROM 82.40MT. TO 84.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.3% CARBONATES as interstitial fillings
100 PC. recovered core in this interval
DARK ANDESITE, ALMOST GABBROIC/DIORITIC
ORIGINAL TOP CNCT
3CM CB VEIN AT 83.98 METERS

FROM 84.00MT. TO 87.00MT. the same as 82.40MT. to 84.00MT. except as noted

FROM 87.00MT. TO 87.75MT. the same as 82.40MT. to 84.00MT. except as noted

SHEAR at 87.25 MT.

FROM 87.25MT. TO 87.45MT. 100% of this subinterval is the same as 82.40MT. to 84.00MT. except as noted

1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
10% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 87.75MT. TO 88.15MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 070,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CRYSTAL TUFF (DYKE,PORPHYRITIC) AS ABOVE - TOP AND BOTTOM
CONTACT ARE IRREGULAR BUT ORIGNAL WITH ALTERATION ZONES IN
THE WALL ROCKS

FROM 88.15MT. TO 88.55MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 070,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
MAGNETISM WEAKENS WHERE SHEARED OR NEAR CONTACTS

FROM 88.55MT. TO 89.35MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 89.35MT. TO 90.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 90.00MT. TO 93.00MT. the same as 89.35MT. to 90.00MT. except as noted

.1% CHLORITE as spots
100 PC. recovered core in this interval

FROM 93.00MT. TO 96.00MT. the same as 89.35MT. to 90.00MT. except as noted

FROM 96.00MT. TO 99.00MT. the same as 89.35MT. to 90.00MT. except as noted

FROM 99.00MT. TO 102.00MT. the same as 89.35MT. to 90.00MT. except as noted

.3% QUARTZ VEINING as microveins
1% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 102.00MT. TO 102.25MT. the same as 89.35MT. to 90.00MT. except as noted

FROM 102.25MT. TO 103.10MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
NON-MAGNETIC DACITE TUFF, SPHERULITIC

FROM 103.10MT. TO 104.76MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
DYKE at 104.76 MT.

FROM 104.76MT. TO 105.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
1% ZEOLITE as amydaloids, cavity fillings
100 PC. recovered core in this interval
POSSIBLE FLOW OR SHALLOW DYKE/SILL - ZEOLITE FILLED AMYGDULES
UP TO 5MM. REACTED CONTACT - IRREGULAR & MICROFAULTED ACROSS
THE CONTACT

FROM 105.00MT. TO 106.35MT. the same as 104.76MT. to 105.00MT. except as noted

FROM 106.35MT. TO 108.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 070,
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
1% QUARTZ as veins
100 PC. recovered core in this interval
BACK IN ANDESITE TO DACITE TUFF

FROM 108.00MT. TO 111.00MT. the same as 106.35MT. to 108.00MT. except as noted

FROM 111.00MT. TO 114.00MT. the same as 106.35MT. to 108.00MT. except as noted

RUBBLY CORE AT 111.65 TO 111.85 AND AGAIN AT 113.80 TO 114.00

FROM 114.00MT. TO 117.00MT. the same as 106.35MT. to 108.00MT. except as noted

CORE INCREASINGLY CRUSHED UP TO 117.00 METERS

FROM 117.00MT. TO 120.00MT. the same as 106.35MT. to 108.00MT. except as noted

CORE PERVASIVELY CRUSHED AND SHEARED THROUGH INTERVAL
SHEAR at 118.87 MT.

FROM 118.87MT. TO 120.00MT. 100% of this subinterval is the same as 106.35MT. to 108.00MT. except as noted

10% QUARTZ as veins
QTZ VEINS IN SHEAR ARE INDISTINCT

FROM 120.00MT. TO 123.00MT. the same as 106.35MT. to 108.00MT. except as noted

SHEAR at 120.00 MT.

FROM 120.00MT. TO 120.35MT. 100% of this subinterval is the same as 106.35MT. to 108.00MT. except as noted

10% QUARTZ as veins

FROM 123.00MT. TO 126.00MT. the same as 106.35MT. to 108.00MT. except as noted

Textures noted: , EQUIGRANULAR

FROM 126.00MT. TO 129.00MT. the same as 106.35MT. to 108.00MT. except as noted

FROM 129.00MT. TO 132.00MT. the same as 106.35MT. to 108.00MT. except as noted

FROM 132.00MT. TO 135.00MT. the same as 106.35MT. to 108.00MT. except as noted

.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 135.00MT. TO 138.00MT. the same as 106.35MT. to 108.00MT. except as noted

FROM 138.00MT. TO 141.00MT. the same as 106.35MT. to 108.00MT. except as noted

.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals

FROM 141.00MT. TO 144.00MT. the same as 106.35MT. to 108.00MT. except as noted

.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
LAST TWO BOXES DARK GREY VERY FINE GRAINED. POSSIBLY A
RHYODACITE BUT NO APPARENT CONTACT WITH OVERLYING ANDESITE.
POSSIBLE TRANSITION TO RHYODACITE AT 131.25 METERS

FROM 144.00MT. TO 145.75MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 070,
.3% QUARTZ VEINING ae microveins
.01% CARBONATES as microveins
.01% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as gouge
100 PC. recovered core in this interval
FAULT at 144.25 MT.

FROM 144.25MT. TO 145.30MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 075,

FROM 145.75MT. TO 147.00MT.
dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (straight) dip 005,
.3% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
10% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
THIS SECTION POSSIBLY AGGLOMERITIC
FAULT at 145.75 MT.

FROM 145.75MT. TO 145.90MT. 70% of this subinterval is
GOUGE

FROM 147.00MT. TO 147.20MT. the same as 145.75MT. to 147.00MT. except as noted

FROM 147.20MT. TO 150.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 015,
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
THE ABOVE TWO ASSAY INTERVALS ARE POTENTIALLY AU BEARING

FROM 150.00MT. TO 151.90MT. the same as 147.20MT. to 150.00MT. except as noted

DYKE at 151.90 MT.

FROM 151.90MT. TO 152.70MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 035,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 152.70MT. TO 153.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 020,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
OF NOTE ARE SOME MINOR SILICEOUS BLACK IRREGULAR BANDS-INTRUSIVE
AS IN THE OUTCROP AT WP-7

FROM 153.00MT. TO 156.00MT. the same as 152.70MT. to 153.00MT. except as noted

DYKE at 156.00 MT.

FROM 156.00MT. TO 156.51MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
UPPER CONTACT OBSCURED BY RUBBLE, LOWER CONTACT APPEARS FAULTED

FROM 156.51MT. TO 158.40MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CINTACT (irregular) dip 060,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
OF NOTE- EITHER A LARGE FRAGMENT OR A BANDED UNIT RUNNING FROM
158.40 TO 159.40 -VARIABLY BANDED RHYOLITE TUFF
FAULT at 157.55 MT.

FROM 157.55MT. TO 157.56MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 055,

FROM 158.40MT. TO 159.00MT.
green grey FINE RHYOLITE BANDED TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030, BANDING (irregular)
.03% QUARTZ VEINING as micraveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
IRREGULAR BANDING -2CM LIGHT GREEN AND DARK GREY

FROM 159.00MT. TO 159.40MT. the same as 158.40MT. to 159.00MT. except as noted

FROM 159.40MT. TO 162.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval
MATRIX HAS VERY FINELY DISSEMINATED PY -GIVES DARK COLOUR TO
OTHERWISE SILICEOUS MATRIX

FROM 162.00MT. TO 165.00MT. the same as 159.40MT. to 162.00MT. except as noted

GENERALLY GRADES FINE TO COARSE DOWN SECTION

FROM 165.00MT. TO 167.00MT. the same as 159.40MT. to 162.00MT. except as noted

DYKE at 167.00 MT.

FROM 167.00MT. TO 167.45MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
1% CARBONATES as vns, microvns, selv. & envel. w some perv./dis. min'l.
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
TOP CONTACT OBSCURED BY RUBBLE

FROM 167.45MT. TO 168.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030,
.3% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
AS BEFORE,PROBABLE PORPHRY DIKE

FROM 168.00MT. TO 168.65MT. the same as 167.45MT. to 168.00MT. except as noted

FROM 168.65MT. TO 169.32MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 015,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
100 PC. recovered core in this interval
CONTACT SLIGHTLY BRECCIATED

FROM 169.32MT. TO 171.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
BRECCIATION DECREASES TOWARD 171.00
FAULT at 170.20 MT.

FROM 170.20MT. TO 170.40MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 171.00MT. TO 174.00MT. the same as 169.32MT. to 171.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

FROM 174.00MT. TO 177.00MT. the same as 169.32MT. to 171.00MT. except as noted

FROM 177.00MT. TO 180.00MT. the same as 169.32MT. to 171.00MT. except as noted

CORE BECOMES BROKEN UP

FROM 180.00MT. TO 180.20MT. the same as 169.32MT. to 171.00MT. except as noted

DYKE at 180.20 MT.

FROM 180.20MT. TO 180.75MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as blebs
98 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE. LOWER CONTACT AT FOOTAGE BLOCK
MINOR CORE LOSS

FROM 180.75MT. TO 183.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 183.00MT. TO 183.78MT. the same as 180.75MT. to 183.00MT. except as noted

DYKE at 183.78 MT.

FROM 183.78MT. TO 184.10MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as blebs
100 PC. recovered core in this interval

FROM 184.10MT. TO 184.75MT.
green grey MEDIUM SPHERUL. RHYOLITIC TUFF
Textures noted: BRECCIATED , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (irregular) dip 030,
1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
WELL BRECCIATED TO SHATTERED

FROM 184.75MT. TO 186.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as blebs
100 PC. recovered core in this interval
PROBABLE FLOW. APPEARS TO BE SOME FLOW BANDING AT UPPER CONTACT
5% WHITE SPECKS. POSSIBLE SPHERULITES
SHEAR at 185.25 MT.

FROM 185.25MT. TO 185.35MT. 100% of this subinterval is the same as 184.75MT. to 186.00MT. except as noted

FROM 186.00MT. TO 189.00MT. the same as 184.75MT. to 186.00MT. except as noted

FAULT at 186.30 MT.

FROM 186.30MT. TO 186.70MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 186.90 MT.

FROM 186.90MT. TO 187.15MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 187.45 MT.

FROM 187.45MT. TO 187.55MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 035,

FROM 187.60MT. TO 189.00MT. this subinterval is the same as 184.75MT. to 186.00MT. except as noted

FROM 189.00MT. TO 191.50MT. the same as 184.75MT. to 186.00MT. except as noted

FROM 189.85MT. TO 191.50MT. 60% of this subinterval is
GOUGE
Textures noted: BRECCIATED

FROM 191.50MT. TO 192.00MT.
green grey DIORITE with 10%QUARTZ
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CHLORITE INTERSTIAL WITH QTZ/PLAGIO ASSEMBLAGE. ALTERED MAFICS
SAUSSURITIZATION
CONTACT FAULTED
PHANERITIC TEXTURE-PANIDIOMORPHIC-GRANULAR
PY AS FINE (.1-.3MM) SCATTERED X-TALS

FROM 192.00MT. TO 195.00MT. the same as 191.50MT. to 192.00MT. except as noted

FROM 195.00MT. TO 198.00MT. the same as 191.50MT. to 192.00MT. except as noted

FROM 197.20MT. TO 198.00MT. 100% of this subinterval is
green grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) ,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
IRREGULAR WAVY CONTACT OVER 20 CMS
PY AS DISSEMINATED CRYSTALS AND BLEBS
WHITE SPECKS POSSIBLE SPHERULITES AS BEFORE (FLOW?)

FROM 198.00MT. TO 201.00MT. the same as 191.50MT. to 192.00MT. except as noted

Structures noted: CONTACT (irregular) ,

FROM 198.25MT. TO 198.60MT. 100% of this subinterval is
green grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
AS ABOVE 197.20 TO 198.00

FROM 201.00MT. TO 204.00MT. the same as 191.50MT. to 192.00MT. except as noted

FROM 204.00MT. TO 207.00MT. the same as 191.50MT. to 192.00MT. except as noted

FROM 207.00MT. TO 210.76MT. the same as 191.50MT. to 192.00MT. except as noted

A001

AUNM	FROM	TO	SAMP #	AS	AU	AS	AU2
A001	300	600	68897	0.08	-0.02	2	
A001	600	900	68898	0.06	-0.02	7	
A001	900	1200	68899	0.06	-0.02	2	
A001	1200	1500	68900	0.08	-0.02	2	
A001	1500	1800	68901	0.08	-0.02	5	
A001	1800	2100	68902	0.05	-0.02	2	
A001	2100	2400	68903	0.07	-0.02	5	
A001	2400	2700	68904	0.08	-0.02	5	
A001	2700	3000	68905	0.07	0.02	2	
A001	3000	3300	68906	0.06	-0.02	5	
A001	3300	3600	68907	0.06	-0.02	1	
A001	3600	3900	68908	0.06	-0.02	4	
A001	3900	4200	68909	0.06	-0.02	8	
A001	4200	4500	68910	0.07	-0.02	4	
A001	4500	4800	68911	0.04	-0.02	7	
A001	4800	5100	68912	0.05	-0.02	1	
A001	5100	5400	68913	0.06	-0.02	4	
A001	5400	5700	68914	0.07	-0.02	7	
A001	5700	6000	68915	0.11	-0.02	5	
A001	6000	6300	68916	0.08	-0.02	2	
A001	6300	6600	68917	0.11	-0.02	10	
A001	6600	6900	68918	0.13	-0.02	10	
A001	6900	7200	68919	0.08	-0.02	2	
A001	7200	7500	68920	0.13	-0.02	8	
A001	7500	7800	68921	0.12	-0.02	16	
A001	7800	8100	68922	0.06	-0.02	3	
A001	8100	8400	68923	0.07	-0.02	12	
A001	8400	8700	68924	0.08	-0.02	13	
A001	8700	9000	68925	0.11	-0.02	24	
A001	9000	9300	68926	0.06	-0.02	2	
A001	9300	9600	68927	0.06	-0.02	5	
A001	9600	9900	68928	0.05	-0.02	1	
A001	9900	10200	68929	0.06	-0.02	3	
A001	10200	10500	68930	0.04	-0.02	2	
A001	10500	10800	68931	0.03	-0.02	6	
A001	10800	11100	68932	0.06	-0.02	2	
A001	11100	11400	68933	0.03	-0.02	1	
A001	11400	11700	68934	0.03	-0.02	1	
A001	11700	12000	68935	0.04	-0.02	5	
A001	12000	12300	68936	0.03	-0.02	2	
A001	12300	12600	68937	0.03	-0.02	4	
A001	12600	12900	68938	0.03	-0.02	4	
A001	12900	13200	68939	0.05	-0.02	4	
A001	13200	13500	68940	0.03	-0.02	1	
A001	13500	13800	68941	0.02	-0.02	1	
A001	13800	14100	68942	0.08	-0.02	8	
A001	14100	14400	68943	0.03	-0.02	11	
A001	14400	14700	68944	0.26	0.12	63	
A001	14700	15000	68945	0.11	0.04	28	
A001	15000	15300	68946	0.15	0.05	19	
A001	15300	15600	68947	0.04	0.02	8	
A001	15600	15900	68948	0.04	-0.02	28	

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A001 15900 16200     68949  0.09  0.02    26
A001 16200 16500     68950  0.07  0.03    44
A001 16500 16800     68951  0.04  0.03    22
A001 16800 17100     68952  0.03 -0.02    14
A001 17100 17400     68953  0.02 -0.02    13
A001 17400 17700     68954  0.03 -0.02    34
A001 17700 18000     68955  0.04 -0.02    26
A001 18000 18300     68956  0.06 -0.02    13
A001 18300 18600     68957  0.06 -0.02     8
A001 18600 18900     68958  0.05 -0.02    11
A001 18900 19200     68959  0.03 -0.02     7
A001 19200 19500     68960  0.02 -0.02     4
A001 19500 19800     68961  0.03 -0.02     2
A001 19800 20100     68962  0.03 -0.02     3
A001 20100 20400     68963  0.13  0.03     3
A001 20400 20700     68964  0.16 -0.02     1
A001 20700 21076     68965  0.10 -0.02     5
/END
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HOLE APRDD016NQWL GRID NORTH 9439.30 GRID EAST10587.60
GRID AZIMUTH OF HOLE 275.00 VERTICAL ANGLE -60.00
TRUE AZIMUTH OF HOLE 275
TOTAL DEPTH OF HOLE: 124.66mt.
Logged by: MMW on (day/mo/yr)...19JUN81

FROM 0.00MT. TO 3.76MT.
OVERBURDEN

FROM 3.76MT. TO 6.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
1% QUARTZ VEINING as amygdaloids, minor microveins, &/or scattered xtals
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
1% ZEOLITE as veins
080 PC. recovered core in this interval
WEATHERED MATERIAL WEAKLY MAGNETIC,LIGHTER GREEN THAN
FRESHER MATERIAL BELOW
NUMEROUS 2 TO 3MM PATCHES-POSSIBLE AMYGDULES WITH QUARTZ AND
MAYBE ZEOLITE INFILLING
SHEAR at 3.76 MT.

FROM 3.76MT. TO 4.25MT. 100% of this subinterval is the same as 3.76MT. to 6.00MT. except as noted

70% ZEOLITE as breccia fillings

FROM 6.00MT. TO 9.00MT. the same as 3.76MT. to 6.00MT. except as noted

FROM 9.00MT. TO 12.00MT. the same as 3.76MT. to 6.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 3.76MT. to 6.00MT. except as noted

FROM 15.00MT. TO 18.00MT. the same as 3.76MT. to 6.00MT. except as noted

090 PC. recovered core in this interval
AMYGDULES DISAPPEAR. CONTACT NOT APPARENT DUE TO RUBBLY CORE

FROM 18.00MT. TO 21.00MT. the same as 3.76MT. to 6.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 3.76MT. to 6.00MT. except as noted

2.5% CARBONATES as microveins
5% ZEOLITE as microveins
CARBONATE AND ZEOLITE FRACTURE FILLINGS UP TO 3CM WIDE
WINDING IRREGULARLY THRU SECTION

FROM 24.00MT. TO 25.10MT. the same as 3.76MT. to 6.00MT. except as noted

ENTIRE SECTION ABOVE SHEARED AND RUBBLY (50%) MOST STRUCTURE
OBSCURED BY POOR CORE RECOVERY
FAULT at 25.00 MT.

FROM 25.00MT. TO 25.10MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 25.10MT. TO 27.00MT.
brown grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 020,
.03% QUARTZ VEINING as microveins
2.5% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
090 PC. recovered core in this interval
HEAVY LIMONITE STAINING OBSCURES TEXTURE. MOST OF PYRITE
LEACHED FROM CORE.

FROM 25.10MT. TO 25.50MT. 100% of this subinterval is the same as 25.10MT. to 27.00MT. except as noted

ZONE IS LAPILLITIC BUT MAY BE PART OF LOWER ZONE

FROM 27.00MT. TO 30.00MT. the same as 25.10MT. to 27.00MT. except as noted

FROM 30.00MT. TO 33.00MT. the same as 25.10MT. to 27.00MT. except as noted

FROM 33.00MT. TO 36.00MT. the same as 25.10MT. to 27.00MT. except as noted

FROM 36.00MT. TO 38.14MT. the same as 25.10MT. to 27.00MT. except as noted

ABOVE SECTION BACK TO 30 METERS WELL BRECCIATED AND VERY
RUBBLY WITH HEAVY LIMONITE STAIN. TEXTURES OBSCURED

FROM 38.14MT. TO 39.00MT.
medium grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: BANDING (irregular)
.03% QUARTZ VEINING as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
LIMONITE STAINING STILL HEAVY ON FRACTURES
A NOT SO BRECCIATED VERSION OF THE ABOVE

FROM 39.00MT. TO 42.00MT. the same as 38.14MT. to 39.00MT. except as noted

Textures noted: BRECCIATED
Structures noted: BANDING dip 035
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as breccia fillings

080 PC. recovered core in this interval
GENERALLY BANDED RHYOLITE WITH SOME BRECCIATION

FROM 42.00MT. TO 45.00MT. the same as 38.14MT. to 39.00MT. except as noted

090 PC. recovered core in this interval
LIMONITE CONTENT DECREASES OVER THIS SECTION, SPHERULITE CONTENT INCREASES

FROM 45.00MT. TO 47.05MT. the same as 38.14MT. to 39.00MT. except as noted

100 PC. recovered core in this interval

FROM 47.05MT. TO 48.00MT.
medium grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as ~~breccia fillings~~ FLOODING

090 PC. recovered core in this interval
MAY BE A HEAVILY BRECCIATED VERSION OF ABOVE.
CONTACT OBSCURED DUE TO BRECCIATION

FROM 48.00MT. TO 49.50MT. the same as 47.05MT. to 48.00MT. except as noted

FROM 49.50MT. TO 51.00MT.
grey green FINE RHYOLITE LAPILLI TUFF
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.

090 PC. recovered core in this interval
CORE RUBBLY AND BROKEN UP 48.00 TO 51.00

FROM 51.00MT. TO 54.00MT. the same as 49.50MT. to 51.00MT. except as noted

070 PC. recovered core in this interval
CORE BECOMES QUITE ALTERED, SHEARED, RUBBLY AND BROKEN UP.

FROM 54.00MT. TO 57.00MT. the same as 49.50MT. to 51.00MT. except as noted

095 PC. recovered core in this interval

FROM 57.00MT. TO 60.00MT. the same as 49.50MT. to 51.00MT. except as noted

SOME GLASSY SHARDS WITH TAPERED ENDS (FLAMME)

FROM 60.00MT. TO 61.60MT. the same as 49.50MT. to 51.00MT. except as noted

DYKE at 61.60 MT.

FROM 61.60MT. TO 63.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
.1% CHLORITE as spots
090 PC. recovered core in this interval
TOP CONTACT OBSCURED BY RUBBLE

FROM 63.00MT. TO 66.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 055,
1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
095 PC. recovered core in this interval
FAULTED CONTACT
PYRITE AND QUARTZ ASSOCIATED IN MICROVEINS
OBVIOUSLY A LAPILLI ASH TUFF. NUMEROUS SEQUENCES OF DEPOSITION
INDICATED BY FINING UP SEQUENCES OF DEPOSITION VARYING FROM
WIDTHS OF 1CM TO 2-3 METERS
ESSENTIALLY ONE LAPILLI SIZE WITH SLIGHT DECREASE UP TO CONTACT
WITH A SHARP DROPOFF TO ASH SIZE OVER LAST 1-2 CM, PER SEQUENCE

FROM 66.00MT. TO 68.55MT. the same as 63.00MT. to 66.00MT. except as noted

DYKE at 68.55 MT.

FROM 68.55MT. TO 69.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOISAL
Structures noted: CONTACT (straight) dip 025,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.3% ZEOLITE as amygdaloids, minor microveins, &/or scattered xtals
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
ORIGINAL CONTACT- REACTION WITH WALL ROCKS AND FINE GRAINSIZE
TOWARDS UPPER CONTACT FINE BANDING OVER 2CM AT CONTACT
PY AS DISSEMINATED BLEBS

FROM 69.00MT. TO 69.40MT. the same as 68.55MT. to 69.00MT. except as noted

BOTTOM CONTACT FAULTED WITH GOUG

FROM 69.35MT. TO 69.40MT. 70% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 69.40MT. TO 72.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 025,
1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins
.3% PYRITE DISSEM. &/BR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
90 PC. recovered core in this interval
EVENT CONTACTS FOR THE LAPILLI TUFF ALL AT 45 TO 50 DEGREES
TOPS UP-HOLE

FROM 72.00MT. TO 75.00MT. the same as 69.40MT. to 72.00MT. except as noted

FROM 75.00MT. TO 78.00MT. the same as 69.40MT. to 72.00MT. except as noted

FROM 78.00MT. TO 81.00MT. the same as 69.40MT. to 72.00MT. except as noted

MATRIX VARIES FROM DACITE TO RHYODACITE RANGE

FROM 81.00MT. TO 84.00MT. the same as 69.40MT. to 72.00MT. except as noted

A NUMBER OF CARBON CHERT BANDS UP TO 3CMS AT ANGLES
CONCORDANT WITH BEDDING. FLAME TEXTURES AT UPPER INTERFACE
WATERLAIN TUFF

FROM 84.00MT. TO 84.25MT. the same as 69.40MT. to 72.00MT. except as noted

FROM 84.25MT. TO 85.80MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: BANDING (irregular)
.01% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
100 PC. recovered core in this interval
THIS IS A BEDDED TUFF UNIT WITH BANDS OF CARBON CHERT UP TO 4CMS
AND MINOR LAPILLI BEDS. GENERALLY FINES UPWARD - SUBAERIAL

FROM 85.80MT. TO 87.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 050,
.03% QUARTZ VEINING as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
090 PC. recovered core in this interval

FROM 87.00MT. TO 90.00MT. the same as 85.80MT. to 87.00MT. except as noted

FROM 90.00MT. TO 90.25MT. the same as 85.80MT. to 87.00MT. except as noted

DYKE at 90.25 MT.

FROM 90.25MT. TO 91.48MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 010,
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
FAULTED AT UPPER CONTACT - SLICKENSIDED AND CHLORITIZED
FINES AT LOWER CONTACT, APPEARS ORIGINAL BUT X-FAULTED(4CM DISP)
PY AS DISSEMINATED BLEBS

FROM 91.48MT. TO 93.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
SOME FRAGMENTS CARBONATE REPLACED

FROM 93.00MT. TO 96.00MT. the same as 91.48MT. to 93.00MT. except as noted

FROM 96.00MT. TO 98.10MT. the same as 91.48MT. to 93.00MT. except as noted

FROM 98.10MT. TO 99.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) , BANDING (irregular)
.1% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
WAVY IRREGULAR CONTACT OVER 15 CM WITH SOME APPARENT REACTION
WITH WALL ROCKS (LAPILLI TUFFS), IRREGULAR BANDING AT CONTACT
MAY BE A TUFF OR A RHYOLITE INTRUSIVE MATERIAL
SOME AMETHYST QTZ AT 100.00 METERS AS IRREGULAR PATCHES
VUGGY AFTER 99.00 METERS WITH CRYSTALS IN VUGS

FROM 99.00MT. TO 100.89MT. the same as 98.10MT. to 99.00MT. except as noted

FROM 99.15MT. TO 99.37MT. 100% of this subinterval is
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045,
.1% QUARTZ VEINING as microveins
2.5% CARBONATES as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
TOP AND BOTTOM CONTACTS BOTH FAULTED AND CHLORITIZED
BOTTOM CNCT AT 050 DEGREES

FROM 100.89MT. TO 102.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) ,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE
ONE MINOR 20CM SECTION AT 101.30M WITH QTZ/PV VEINLETS

FROM 102.00MT. TO 105.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 105.00MT. TO 108.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 108.00MT. TO 111.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 111.00MT. TO 114.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 114.00MT. TO 117.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 117.00MT. TO 120.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 120.00MT. TO 123.00MT. the same as 100.89MT. to 102.00MT. except as noted

FROM 120.80MT. TO 121.38MT. 100% of this subinterval is
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 025,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
DARK GREY SILICEOUS SEDIMENT
MINOR SILICEOUS VEINLET WITH PY AT 122.81

FROM 123.00MT. TO 124.66MT. the same as 100.89MT. to 102.00MT. except as noted

A001

AUMM	FROM	TO	SAMP #	AG	AU	AS	AUZ
A001	380	600	68966	0.10	-0.02	3	
A001	600	900	68967	0.07	-0.02	1	
A001	900	1200	68968	0.07	-0.02	2	
A001	1200	1500	68969	0.05	-0.02	1	
A001	1500	1800	68970	0.06	-0.02	1	
A001	1800	2100	68971	0.06	-0.02	2	
A001	2100	2400	68972	0.04	-0.02	8	
A001	2400	2700	68973	0.11	-0.02	8	
A001	2700	3000	68974	0.20	-0.02	7	
A001	3000	3300	68975	0.13	-0.02	13	
A001	3300	3600	68976	0.10	-0.02	6	
A001	3600	3900	68977	0.11	-0.02	11	
A001	3900	4200	68978	0.18	-0.02	22	
A001	4200	4500	68979	0.13	-0.02	13	
A001	4500	4800	68980	0.19	-0.02	12	
A001	4800	5100	68981	0.26	-0.02	6	
A001	5100	5400	68982	0.18	-0.02	4	
A001	5400	5700	68983	0.07	-0.02	5	
A001	5700	6000	68984	0.05	-0.02	3	
A001	6000	6300	68985	0.06	-0.02	7	
A001	6300	6600	68986	0.12	-0.02	14	
A001	6600	6900	68987	0.08	-0.02	7	
A001	6900	7200	68988	0.09	-0.02	5	
A001	7200	7500	68989	0.09	-0.02	12	
A001	7500	7800	68990	0.04	0.02	14	
A001	7800	8100	68991	0.08	-0.02	37	
A001	8100	8400	68992	0.06	-0.02	23	
A001	8400	8700	68993	0.06	-0.02	40	
A001	8700	9000	68994	0.04	-0.02	35	
A001	9000	9300	68995	0.02	-0.02	8	
A001	9300	9600	68996	0.22	-0.02	70	
A001	9600	9900	68997	0.14	-0.02	33	
A001	9900	10200	68998	0.13	-0.02	32	
A001	10200	10500	68999	0.11	-0.02	26	
A001	10500	10800	69000	0.09	0.02	7	

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A001 10800 11100     57151  0.14  0.04    21
A001 11100 11400     57152  0.09  0.02    15
A001 11400 11700     57153  0.07 -0.02    15
A001 11700 12000     57154  0.11 -0.02    16
A001 12000 12300     57155    11 -0.02    41
A001 12300 12465     57156     6  0.04    75
/END
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HOLE APRDD017NGWL GRID NORTH 9750.25 GRID EAST10214.75
GRID AZIMUTH OF HOLE 175.00 VERTICAL ANGLE -58.00
TRUE AZIMUTH OF HOLE 175
TOTAL DEPTH OF HOLE: 143.56mt.
Logged by: MMW on (day/mo/yr)...22JUN81

FROM 0.00MT. TO 7.00MT.
OVERBURDEN

FROM 7.00MT. TO 9.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
70 PC. recovered core in this interval
SHEARED, FRACTURED AND VERY RUBBLY CORE (90% RUBBLE)
TYPICAL OF THE ANDESITES TO DACITES FOUND AT THE TOPS OF
OTHER HOLES

FROM 9.00MT. TO 12.00MT. the same as 7.00MT. to 9.00MT. except as noted

FROM 12.00MT. TO 15.00MT. the same as 7.00MT. to 9.00MT. except as noted

FROM 15.00MT. TO 18.00MT. the same as 7.00MT. to 9.00MT. except as noted

FROM 18.00MT. TO 21.00MT. the same as 7.00MT. to 9.00MT. except as noted

FROM 21.00MT. TO 24.00MT. the same as 7.00MT. to 9.00MT. except as noted

at 24.00 MT.

FROM 24.00MT. TO 27.00MT.
MISSING CORE
VERY POOR RECOVERY, NO SAMPLE FOR ASSAY
at 27.00 MT.

FROM 27.00MT. TO 28.04MT.
MISSING CORE

FROM 28.04MT. TO 30.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
50 PC. recovered core in this interval
SOME OF THE MATRIX APPEARS ANDESITIC, BUT MAY BE AN IRREGULAR
CONTACT WITH THE ABOVE. CONTACT OBSCURED BY RUBBLE

FROM 30.00MT. TO 33.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (irregular) dip 050,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
50 PC. recovered core in this interval
NO APPARENT REASON FOR CORE LOSS, CORE IS BLOCKY BUT NOT GROUND

FROM 33.00MT. TO 36.00MT. the same as 30.00MT. to 33.00MT. except as noted

FROM 36.00MT. TO 36.50MT. the same as 30.00MT. to 33.00MT. except as noted

ROCK IS WELL FAULTED WITH GOUGE MATERIAL IN MINOR AMOUNTS
FAULT at 36.47 MT.

FROM 36.47MT. TO 36.48MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 030,

FROM 36.50MT. TO 38.45MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
70 PC. recovered core in this interval
PROBABLE RHYOLITE FELDSPAR PORPHYRY DYKE
CORE IS WELL FRACTURED WITH WELL DEVELOPED CARBONATE AND ZEOLITE
IN FRACTURES

FROM 38.45MT. TO 39.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
80 PC. recovered core in this interval
CORE BECOMES SOMEWHAT MORE COMPETANT WITH BETTER CORE RECOVERY

FROM 39.00MT. TO 42.00MT. the same as 38.45MT. to 39.00MT. except as noted

NO EXPLANATION FOR CORE LOSS
THE ABOVE 32.0 METERS IS VERY RUBBLY WITH POOR RECOVERY. FOR
SOME LOSES, THERE IS NO EXPLANATION

FROM 42.00MT. TO 44.70MT. the same as 38.45MT. to 39.00MT. except as noted

FROM 44.70MT. TO 45.00MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 020,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in thie interval
RHYOLITE FELDSPAR PORPHYRY, RECTANGULAR TO SUB-RECTANGULAR LATHS
OF PROBABLE FELDSPAR

FROM 45.00MT. TO 46.17MT. the same as 44.70MT. to 45.00MT. except as noted

FROM 46.17MT. TO 47.24MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) , BANDING (irregular)
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as breccia fillings
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
70 PC. recovered core in this interval
BRECCIATED SPHERULITIC TUFF, PARTIALLY BANDED BUT IRREGULAR
DYKE at 47.24 MT.

FROM 47.24MT. TO 48.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.01% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
40 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE AND POOR CORE RECOVERY

FROM 48.00MT. TO 49.68MT. the same as 47.24MT. to 48.00MT. except as noted

FROM 49.68MT. TO 51.00MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: BANDING (irregular)
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
5% ZEOLITE as breccia fillings
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
40 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 51.00MT. TO 54.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
30 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 54.00MT. TO 57.00MT. the same as 51.00MT. to 54.00MT. except as noted

? QUARTZ FLOODING as framework crystals
.1% QUARTZ (brx. or interfrag. fill) as breccia fillings
SOME SILICA FLOODING WITH ASSOCIATED VERY FINE PYRITE

FROM 57.00MT. TO 59.50MT. the same as 51.00MT. to 54.00MT. except as noted

FAULT at 57.81 MT.

FROM 57.81MT. TO 57.95MT. 50% of this subinterval is the same as 51.00MT. to 54.00MT. except as noted
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 59.50MT. TO 60.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 040,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
95 PC. recovered core in this interval
SOME FRAGMENTS PARTIALLY AND TOTALY REPLACED BY PYRITE
FAULT at 59.50 MT.

FROM 59.50MT. TO 59.75MT. 50% of this subinterval is the same as 59.50MT. to 60.00MT. except as noted
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 60.00MT. TO 63.00MT. the same as 59.50MT. to 60.00MT. except as noted

FROM 63.00MT. TO 63.40MT. the same as 59.50MT. to 60.00MT. except as noted

CONTACT INTERMITTENT OVER 40 CM WITH PIECES OF ROCK FROM BELOW
INCLUDED IN THE SECTION

FROM 63.40MT. TO 66.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) , BANDING (irregular)
5% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
CONTACT WELL BRECCIATED OVER 20 CM AND ROCK BECOMES WELL BANDED
OVER THE NEXT METER AND THEN GRADES INTO A FINE VARIABLY BANDED
TUFF

FROM 63.40MT. TO 63.60MT. 100% of this subinterval is the same as 63.40MT. to 66.00MT. except as noted

Textures noted: BRECCIATED

FROM 63.60MT. TO 64.60MT. 100% of this subinterval is the same as 63.40MT. to 66.00MT. except as noted
green grey
Structures noted: BANDING dip 045
BANDING SHOWS SHADOWS AROUND THE OCCAISIONAL DISRUPTED GRAINS
WHICH INDICATES FLOW MATERIAL

FROM 66.00MT. TO 69.00MT. the same as 63.40MT. to 66.00MT. except as noted

ALTERATION SELVAGES TO QTZ VEINS AS BLEACHED ROCK

FROM 69.00MT. TO 72.00MT. the same as 63.40MT. to 66.00MT. except as noted

10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
PY AS SELVAGES AT 2.5%, BLEACHING ABOUT QTZ-VEINS INCREASES TO
50% OF THE CORE AFFECTED

FROM 72.00MT. TO 75.00MT. the same as 63.40MT. to 66.00MT. except as noted

FROM 75.00MT. TO 78.00MT. the same as 63.40MT. to 66.00MT. except as noted

OVER LAST METER OF SECTION ARE INCREASING NUMBERS OF SMALL VUGS
OR VESICLES. POSSIBLE VUGS AS THEY COULD BE FROM DISSOLVED FUME
SHARDS (FIAMME) OR FLOW ALIGNED VESICLES. THEY ARE FILLED OR
PARTIALLY FILLED WITH SMALL (.5MM) WHITE CRYSTALS

FROM 78.00MT. TO 81.00MT. the same as 63.40MT. to 66.00MT. except as noted

10% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
APPROXIMATELY 0.5% PYRITE AS SELVAGES

FROM 81.00MT. TO 84.00MT. the same as 63.40MT. to 66.00MT. except as noted

.1% QUARTZ VEINING as microveins

FROM 84.00MT. TO 87.00MT. the same as 63.40MT. to 66.00MT. except as noted

.03% QUARTZ VEINING as microveins

FROM 87.00MT. TO 90.00MT. the same as 63.40MT. to 66.00MT. except as noted

.1% CARBONATES as microveins
.3% ZEOLITE as microveins
CORE IS INCREASINGLY FRACTURED AND PARTIALLY BRECCIATED DOWN
TOWARDS 90 METERS

FROM 90.00MT. TO 93.00MT. the same as 63.40MT. to 66.00MT. except as noted

Textures noted: BRECCIATED
.03% CARBONATES as microveins
2.5% ZEOLITE as microveins

FROM 93.00MT. TO 96.00MT. the same as 63.40MT. to 66.00MT. except as noted

.3% ZEOLITE as microveins

FROM 96.00MT. TO 99.00MT. the same as 63.40MT. to 66.00MT. except as noted

.1% CARBONATES as microveins

FROM 99.00MT. TO 102.00MT. the same as 63.40MT. to 66.00MT. except as noted

FROM 102.00MT. TO 103.60MT. the same as 63.40MT. to 66.00MT. except as noted

Textures noted: BRECCIATED
? QUARTZ FLOODING as framework crystals
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING

at 103.60 MT.

FROM 103.60MT. TO 105.00MT.
MISSING CORE

at 105.00 MT.

FROM 105.00MT. TO 105.30MT.
MISSING CORE

FROM 105.30MT. TO 107.65MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: BANDING (irregular)
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
70 PC. recovered core in this interval
AS ABOVE - HAS CHARACTERISTICS OF A TUFF, FLOW, AND A DYKE. IT
MAY RELATE TO THE RHYOLITE PORPHYRY DIKE MATERIAL

FROM 107.65MT. TO 108.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 030,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
SLICKENSIDED CONTACT WITH CHLORITE

FROM 108.00MT. TO 108.12MT. the same as 107.65MT. to 108.00MT. except as noted

FROM 108.12MT. TO 111.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 030, BANDING (irregular)
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
AS AT THE START OF THE PREVIOUS TUFF SECTION
-BRECCIATED OVER 20 CM AFTER SLICKENSIDED CONTACT
-WELL BANDED OVER THE NEXT METER

FROM 108.12MT. TO 108.32MT. 100% of this subinterval is the same as 108.12MT. to 111.00MT. except as noted

Textures noted: BRECCIATED

FROM 108.32MT. TO 109.32MT. 100% of this subinterval is the same as 108.12MT. to 111.00MT. except as noted
green grey
Structures noted: BANDING dip 015

FROM 111.00MT. TO 114.00MT. the same as 108.12MT. to 111.00MT. except as noted

? QUARTZ FLOODING as framework crystals

FROM 114.00MT. TO 117.00MT. the same as 108.12MT. to 111.00MT. except as noted

VERY IRREGULAR BANDING, POSSIBLE DEFORMED ASH TUFF OR FLOW
MATERIAL OVER LAST 3 METERS
FOUR DISTINCT SLICKENSIDED FAULTS WITH CHLORITE OVER THE LAST
20 CM OF THE SECTION AT 045 DEGREES

FROM 117.00MT. TO 118.40MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 045,
.1% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
2.5% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
FAULT at 117.00 MT.

FROM 117.00MT. TO 117.20MT. 80% of this subinterval is the same as 117.00MT. to 118.40MT. except as noted
GOUGE
Structures noted: CONTACT (straight) dip 045,

DYKE at 118.40 MT.

FROM 118.40MT. TO 120.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 020,
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
FINES AT UPPER AND LOWER CONTACTS, UPPER CONTACT APPEARS
ORIGINAL WITH THE LOWER CONTACT OBSCURED BY RUBBLE

DYKE at 120.00 MT.

FROM 120.00MT. TO 121.00MT. the same as 118.40MT. to 120.00MT. except as noted

FROM 121.00MT. TO 122.25MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
95 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE
DYKE at 122.25 MT.

FROM 122.25MT. TO 123.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
95 PC. recovered core in this interval
CONTACT IS BETWEEN CORE BOXES - OBSCURED
ANDESITE AS ABOVE 118.40 TO 121.00 METERS

FROM 123.00MT. TO 124.00MT. the same as 122.25MT. to 123.00MT. except as noted

FAULT at 123.50 MT.

FROM 123.50MT. TO 124.00MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 124.00MT. TO 126.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
2.5% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.1% QUARTZ (brx. or interfrag. fill) as breccia fillings
95 PC. recovered core in this interval

FROM 126.00MT. TO 126.20MT. the same as 124.00MT. to 126.00MT. except as noted

FROM 126.20MT. TO 127.41MT.
dark grey FINE SEDIMENTS
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.01% CARBONATES as microveins
.03% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as perv. or dis. min'l. w/ some vns, microvns, selv.& envel.
80 PC. recovered core in this interval
BRECCIATED CONTACT. FINE SILICEOUS SEDIMENT
VERY FINE DISSEMINATED PYRITE AS WELL AS FRACTURE FILLINGS
SOME INDISTINCT WHITISH PATCHES, ETCHED
FAULT at 127.21 MT.

FROM 127.21MT. TO 127.41MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 127.41MT. TO 129.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
2.5% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
.3% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
90 PC. recovered core in this interval
WELL BRECCIATED RHYOLITE FRAGMENTAL

FROM 129.00MT. TO 132.00MT. the same as 127.41MT. to 129.00MT. except as noted

FROM 132.00MT. TO 132.59MT. the same as 127.41MT. to 129.00MT. except as noted

RUBBLE

FROM 132.59MT. TO 135.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
65 PC. recovered core in this interval
HIGHLY SHEARED AND ALTERED, CONTACTS OBSCURED BY RUBBLE

FROM 135.00MT. TO 138.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
5% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
DACITE TUFF

FROM 138.00MT. TO 141.00MT. the same as 135.00MT. to 138.00MT. except as noted

FROM 141.00MT. TO 143.56MT. the same as 135.00MT. to 138.00MT. except as noted

A001

AUMM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	700	900	57157	0.3	0.02	9	
A001	900	1200	57158	-0.2	-0.02	1	
A001	1200	1500	57159	-0.2	-0.02	2	
A001	1500	1800	57160	-0.2	-0.02	10	
A001	1800	2100	57161	-0.2	0.16	3	
A001	2100	2400	57162	0.2	-0.02	6	
A001	2700	3000	57163	-0.2	-0.02	25	
A001	3000	3300	57164	-0.2	-0.02	43	
A001	3300	3600	57165	-0.2	0.08	115	
A001	3600	3900	57166	-0.2	-0.02	21	
A001	3900	4200	57167	-0.2	-0.02	10	
A001	4200	4500	57168	-0.2	-0.02	20	
A001	4500	4800	57169	-0.2	-0.02	17	
A001	4800	5100	57170	-0.2	-0.02	10	
A001	5100	5400	57171	-0.2	-0.02	17	
A001	5400	5700	57172	-0.2	0.06	24	
A001	5700	6000	57173	-0.2	0.06	33	
A001	6000	6300	57174	-0.2	-0.02	64	
A001	6300	6600	57175	-0.2	0.02	29	
A001	6600	6900	70601	-0.2	-0.02	29	
A001	6900	7200	70602	-0.2	0.03	30	
A001	7200	7500	70603	-0.2	0.03	70	
A001	7500	7800	70604	-0.2	0.04	42	
A001	7800	8100	70605	-0.2	0.04	36	
A001	8100	8400	70606	-0.2	-0.02	33	
A001	8400	8700	70607	-0.2	0.03	33	
A001	8700	9000	70608	-0.2	0.03	27	
A001	9000	9300	70609	-0.2	0.03	29	
A001	9300	9600	70610	-0.2	0.04	21	
A001	9600	9900	70611	-0.2	-0.02	30	
A001	9900	10200	70612	-0.2	-0.02	29	
A001	10200	10500	70613	-0.2	0.14	74	
A001	10500	10800	70614	-0.2	0.02	29	
A001	10800	11100	70615	-0.2	-0.02	19	
A001	11100	11400	70616	-0.2	-0.02	17	
A001	11400	11700	70617	-0.2	-0.02	15	
A001	11700	12000	70618	-0.2	-0.02	19	
A001	12000	12300	70619	-0.02	-0.02	3	

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A001 12300 12600     70620  0.39  0.12    48
A001 12600 12900     70621  1.60          77 20.28
A001 12900 13200     70622  1.64         109  2.12
A001 13200 13500     70623 -0.02  0.15     5
A001 13500 13800     70624  0.26  0.08    28
A001 13800 14100     70625 -0.02 -0.02    14
A001 14100 14355     70626  0.03 -0.02     8
/END
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HOLE APRDD018NQWL GRID NORTH 9876.82 GRID EAST10124.37
GRID AZIMUTH OF HOLE 175.00 VERTICAL ANGLE -57.00
TRUE AZIMUTH OF HOLE 175
TOTAL DEPTH OF HOLE: 132.89mt.
Logged by: MMW on (day/mo/yr)...28JUN81

FROM 0.00MT. TO 4.35MT.
OVERBURDEN

FROM 4.35MT. TO 6.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: , AGGLOMERITIC
.03% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
20% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
HEAVILY PYRITIZED MATRIX GIVING A DARK COLOR TO THE CORE
OF NOTE IS THAT THIS ROCK IS CONSIDERABLY DIFFERENT TO THE TOPS
OF HOLES FROM A FEW FEET AWAY
ONE FRAGMENT, WELL ROUNDED, SHOWS A 3MM ALTERATION RIM
FAULT at 4.35 MT.

FROM 4.35MT. TO 4.58MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 060,

FROM 6.00MT. TO 9.00MT. the same as 4.35MT. to 6.00MT. except as noted

FROM 9.00MT. TO 12.00MT. the same as 4.35MT. to 6.00MT. except as noted

Textures noted: BRECCIATED
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
10% QUARTZ (brx. or interfrag. fill) as breccia fillings
CORE BECOMES GENERALLY GOUGY WITH SOME CORE LOSS
FAULT at 11.50 MT.

FROM 11.50MT. TO 12.00MT. 30% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 060,

FROM 12.00MT. TO 15.00MT. the same as 4.35MT. to 6.00MT. except as noted

FAULT at 14.10 MT.

FROM 14.10MT. TO 14.40MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 15.00MT. TO 18.00MT. the same as 4.35MT. to 6.00MT. except as noted

FAULT at 17.00 MT.

FROM 17.00MT. TO 18.00MT. 30% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 18.00MT. TO 21.00MT. the same as 4.35MT. to 6.00MT. except as noted

1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
5% QUARTZ (brx. or interfrag. fill) as breccia fillings
100 PC. recovered core in this interval
FAULT at 18.30 MT.

FROM 18.30MT. TO 18.50MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 070,
FAULT at 18.75 MT.

FROM 18.75MT. TO 19.40MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 21.00MT. TO 24.00MT. the same as 4.35MT. to 6.00MT. except as noted

FAULT at 22.36 MT.

FROM 22.36MT. TO 22.76MT. 60% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) dip 060,

FROM 24.00MT. TO 27.00MT. the same as 4.35MT. to 6.00MT. except as noted

FAULT at 24.00 MT.

FROM 24.00MT. TO 24.80MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
FAULT at 26.20 MT.

FROM 26.20MT. TO 27.00MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 27.00MT. TO 30.00MT. the same as 4.35MT. to 6.00MT. except as noted

FAULT at 28.00 MT.

FROM 28.00MT. TO 30.00MT. 20% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
INTERMITTENT FAULT GOUGE WITH IRREGULAR CONTACTS

FROM 30.00MT. TO 32.80MT. the same as 4.35MT. to 6.00MT. except as noted

.1% PYRITE DISSEM. &/OR VEINING as microveins
.1% QUARTZ (brx. or interfrag. fill) as breccia fillings
DYKE at 32.80 MT.

FROM 32.80MT. TO 33.00MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR , AMYGDALOIDAL
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.3% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
QTZ MICROVEINS WITH PYRITE SELVAGES. DYKE FINES AT CONTACTS
AND CONTACTS APPEAR ORIGINAL THOUGH BOTTOM CONTACT IS FAULTED

FROM 33.00MT. TO 33.40MT. the same as 32.80MT. to 33.00MT. except as noted

FROM 33.40MT. TO 36.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 030,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
70 PC. recovered core in this interval
CONTACT SLICKENSIDED AND CHLORITIZED

FROM 34.75MT. TO 35.36MT. 50% of this subinterval is
GOUGE
Structures noted: CONTACT (irregular) ,
DYKE at 36.00 MT.

FROM 36.00MT. TO 36.88MT.
green grey ANDESITE FLOW OR DYKE
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
.1% CARBONATES as amygdaloids, minor microveins, &/or scattered xtals
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
30 PC. recovered core in this interval
TOP AND BOTTOM CONTACTS OBSCURED BY RUBBLE

FROM 36.88MT. TO 38.90MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
50 PC. recovered core in this interval
RECTANGULAR TO SUBRECTANGULAR LATHS OF FELDSPAR IN RHYOLITIC
MATERIAL - AS BEFORE, PROBABLE RHYOLITE PORPHYRY
THIS MATERIAL MAY BE DACITIC AS IT IS SOFT AND THERE IS DACITIC
MATERIAL BELOW IT
CORE IS RUBBLY AND WELL BROKEN UP

FROM 38.90MT. TO 39.00MT.
green grey FINE DACITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
DACITIC MATERIAL- MAY BE TUFF OR FLOW OR DYKE
CONTACT IS RUBBLY

FROM 39.00MT. TO 39.90MT. the same as 38.90MT. to 39.00MT. except as noted

FROM 39.90MT. TO 42.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
.1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in this interval
CONTACT OBSCURED BY RUBBLE

FROM 40.75MT. TO 42.00MT. 100% of this subinterval is the same as 39.90MT. to 42.00MT. except as noted

Textures noted: BRECCIATED

FROM 42.00MT. TO 42.21MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , AGGLOMERITIC , SPHERULITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in this interval

FROM 42.21MT. TO 45.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) ,
.1% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
.3% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as breccia fillings
FAULT at 44.45 MT.

FROM 44.45MT. TO 44.65MT. 90% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 005,

FROM 45.00MT. TO 48.00MT. the same as 42.21MT. to 45.00MT. except as noted

FAULT at 45.00 MT.

FROM 45.00MT. TO 45.20MT. 100% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 050,
FAULT at 47.60 MT.

FROM 47.60MT. TO 47.80MT.
GOUGE
Structures noted: CONTACT (irregular) ,

FROM 48.00MT. TO 51.00MT. the same as 47.60MT. to 47.80MT. except as noted

1% QUARTZ VEINING as microveins

FROM 51.00MT. TO 54.00MT. the same as 47.60MT. to 47.80MT. except as noted

FROM 54.00MT. TO 57.00MT. the same as 47.60MT. to 47.80MT. except as noted

Textures noted: BRECCIATED
FAULT at 55.50 MT.

FROM 55.50MT. TO 56.00MT. 20% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 085,

FROM 57.00MT. TO 57.90MT. the same as 47.60MT. to 47.80MT. except as noted

FROM 57.90MT. TO 59.50MT.
green grey FINE RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
2.5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.01% CARBONATES as microveins
.1% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
PARTIALLY BRECCIATED AND SILICA FLOODED

FROM 59.50MT. TO 60.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 050,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
100 PC. recovered core in this interval

FROM 60.00MT. TO 60.35MT. the same as 59.50MT. to 60.00MT. except as noted

FROM 60.35MT. TO 62.79MT.
med. dark grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED
Structures noted: CONTACT (straight) dip 025,
5% QUARTZ VEINING as microveins
? QUARTZ FLOODING as framework crystals
.03% CARBONATES as microveins
5% PYRITE DISSEM. &/OR VEINING as selvages
2.5% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
100 PC. recovered core in this interval
HEAVY QTZ-VEINING ASSOCIATED WITH HEAVY PY & QTZ-FLOODING

FROM 62.05MT. TO 62.43MT. 100% of this subinterval is the same as 60.35MT. to 62.79MT. except as noted

60% QUARTZ VEINING as veins
? QUARTZ FLOODING as framework crystals
20% QUARTZ (brx. or interfrag. fill) as [redacted]s FLOODING
QUARTZ VEINS ARE IRREGULAR AND APPEAR TO BE POST SILICA FLOODING
AND PYRITIZATION (WHITE)

FROM 62.79MT. TO 63.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (irregular) dip 050,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval

FROM 63.00MT. TO 63.50MT. the same as 62.79MT. to 63.00MT. except as noted

FROM 63.50MT. TO 64.65MT.
green grey FINE SPHERULITIC RHYOLITE TUFF
Textures noted: , EQUIGRANULAR , SPHERULITIC
Structures noted: CONTACT (straight) dip 050,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
90 PC. recovered core in this interval
FINE (.5MM) SPHERULITES AS FINE SPECKS

FROM 64.65MT. TO 66.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
Structures noted: CONTACT (straight) dip 060,
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
CONTACT SLICKENSIDED WITH A GOUGE ZONE BELOW IT
FAULT at 64.65 MT.

FROM 64.65MT. TO 65.20MT. 80% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 060,

FROM 66.00MT. TO 66.90MT. the same as 64.65MT. to 66.00MT. except as noted

FROM 66.90MT. TO 67.60MT.
green grey FINE RHYOLITE FELDSPAR PORPHYRY
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 025,
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 67.60MT. TO 69.00MT.
green grey FINE RHYOLITE FRAGMENTAL TUFF
Textures noted: BRECCIATED , AGGLOMERITIC
.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
1% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
50 PC. recovered core in this interval
UNEXPLAINED CORE LOSS, CORE IS COMPETANT BUT .5M ARE MISSING
CONTACT NOT APPARENT

FROM 69.00MT. TO 69.40MT. the same as 67.60MT. to 69.00MT. except as noted

FAULT at 69.35 MT.

FROM 69.35MT. TO 69.40MT. 30% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 070,
FAULTED LOWER CONTACT TO FRAGMENTAL

FROM 69.40MT. TO 72.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 070,
.3% QUARTZ VEINING as microveins
.3% CARBONATES as microveins
.1% ZEOLITE as microveins
2.5% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
2.5% QUARTZ (brx. or interfrag. fill) as [redacted] FLOODING
100 PC. recovered core in this interval
SHEARED UP RHYODACITE LAPILLI TUFF
MOST FRAGMENTS WITH ALT'N RIMS, SOME REPLACED BY PY.

FROM 72.00MT. TO 75.00MT. the same as 69.40MT. to 72.00MT. except as noted

2.5% CARBONATES as microveins
80 PC. recovered core in this interval
POOR RECOVERY FROM 74.37 TO 75.00

FROM 75.00MT. TO 78.00MT.
green grey FINE RHYOLITE TUFF
Textures noted: BRECCIATED , EQUIGRANULAR
Structures noted: CONTACT (irregular) dip 010,
.03% QUARTZ VEINING as microveins
.1% CARBONATES as microveins
5% ZEOLITE as breccia fillings
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
80 PC. recovered core in this interval
RUBBLY CORE, POOR RECOVERY.
FAULT at 77.20 MT.

FROM 77.20MT. TO 77.90MT. 80% of this subinterval is
GOUGE
Structures noted: CONTACT (straight) dip 075,
PORTION OF THE RHYODACITE INCLUDED IN THE GOUGE
SEE COMMENTS AFTER 92.25 METERS ###

FROM 78.00MT. TO 81.00MT. the same as 75.00MT. to 78.00MT. except as noted

.1% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
.3% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
CORE GAINS COMPETANCY BECOMING HARD AND FINER GRAINED
QTZ-MICROVEINS WITH ALTERATION SELVAGES

FROM 81.00MT. TO 84.00MT. the same as 75.00MT. to 78.00MT. except as noted

FROM 84.00MT. TO 87.00MT. the same as 75.00MT. to 78.00MT. except as noted

FROM 87.00MT. TO 90.00MT. the same as 75.00MT. to 78.00MT. except as noted

CORE BECOMES RUBBLY OVER THE LAST METER

FROM 90.00MT. TO 92.25MT. the same as 75.00MT. to 78.00MT. except as noted

THE ABOVE 17.25 METERS VARIES FROM WELL BANDED TO SLIGHTLY
ALIGNED AT ANGLES BETWEEN 50 AND 70 DEGREES.
SOME OF THE ALIGNMENT IS FROM WHAT MAY BE ALTERED FELDSPAR LATHS
WITH THE ALTERATION BEING TO EPIDOTE
AS SUCH THIS COULD WELL BE THE RHYOLITE PORPHYRY (X-TAL TUFF)
BANDING INCREASES AT LOWER CONTACT AND GENERAL IMPRESSION IS
THAT OF A DYKE OR FLOW

FROM 92.25MT. TO 93.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 050,
20% QUARTZ VEINING as veins and dalmationite
.03% CARBONATES as microveins
.03% ZEOLITE as microveins
1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval
SHEAR at 92.25 MT.

FROM 92.25MT. TO 92.36MT. 100% of this subinterval is the same as 92.25MT. to 93.00MT. except as noted

20% QUARTZ VEINING as microveins
20% CARBONATES as microveins
RHYODACITE TUFF - IRREGULAR ALTERATION LINES ABOUT SHARDS-DENDRI
LARGE IRREGULAR PATCHES OF QUARTZ AT 15 TO 20%

FROM 93.00MT. TO 93.55MT. the same as 92.25MT. to 93.00MT. except as noted

FROM 93.55MT. TO 93.85MT.
green grey FINE BANDED SPHER. RHYOLITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 045, BANDING dip 040
.03% QUARTZ VEINING as microveins
.03% CARBONATES as microveins
.01% ZEOLITE as microveins
.01% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
BANDING OPPOSED TO TOP CONTACT

FROM 93.85MT. TO 95.85MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
Structures noted: CONTACT (straight) dip 025,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 95.85MT. TO 96.00MT.
green grey FINE RHYODACITE LAPILLI TUFF
Structures noted: CONTACT (straight) dip 075,
.03% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.03% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as vns, microvns, selv. & envel. w some perv./dis. min'l.
100 PC. recovered core in this interval

FROM 96.00MT. TO 99.00MT. the same as 95.85MT. to 96.00MT. except as noted

LAPILLI SIZE FRAGMENS DECREASE TO COARSE ASH

FROM 99.00MT. TO 102.00MT.
green grey FINE RHYODACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
5% CARBONATES as microveins
1% ZEOLITE as microveins
.03% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval

FROM 102.00MT. TO 105.00MT. the same as 99.00MT. to 102.00MT. except as noted

FROM 105.00MT. TO 108.00MT. the same as 99.00MT. to 102.00MT. except as noted

FROM 108.00MT. TO 108.60MT. the same as 99.00MT. to 102.00MT. except as noted

FROM 108.60MT. TO 111.00MT.
green grey ANDESITE DACITE TUFF
Textures noted: , EQUIGRANULAR
.1% QUARTZ VEINING as microveins
1% CARBONATES as microveins
.3% ZEOLITE as microveins
.1% PYRITE DISSEM. &/OR VEINING as disseminations and scattered crystals
100 PC. recovered core in this interval
ANDESITE TO DACITE TUFFS AND FLOWS

FROM 111.00MT. TO 114.00MT. the same as 108.60MT. to 111.00MT. except as noted

5% CARBONATES as microveins

FROM 114.00MT. TO 117.00MT. the same as 108.60MT. to 111.00MT. except as noted

1% CARBONATES as microveins

FROM 117.00MT. TO 120.00MT. the same as 108.60MT. to 111.00MT. except as noted

FROM 120.00MT. TO 123.00MT. the same as 108.60MT. to 111.00MT. except as noted

FROM 123.00MT. TO 126.00MT. the same as 108.60MT. to 111.00MT. except as noted

FROM 126.00MT. TO 129.00MT. the same as 108.60MT. to 111.00MT. except as noted

FROM 129.00MT. TO 132.89MT. the same as 108.60MT. to 111.00MT. except as noted

A001

AUHM	FROM	TO	SAMP #	AG	AU	AS	AU2
A001	435	600	70627	2.4	1.24	580	
A001	600	900	70628	1.9	0.30	560	
A001	900	1200	70629	2.3	0.24	340	
A001	1200	1500	70630	2.0	0.18	400	
A001	1500	1800	70631	2.0		510	
A001	1800	2100	70632	0.4	0.29	88	
A001	2100	2400	70633	0.3	0.16	88	
A001	2400	2700	70634	0.2	0.10	61	
A001	2700	3000	70635	0.5	0.26	92	
A001	3000	3300	70636	0.4	-0.02	22	
A001	3300	3600	70637	0.4	-0.02	14	
A001	3600	3900	70638	0.2	-0.02	14	
A001	3900	4200	70639	0.3	0.09	30	
A001	4200	4500	70640	0.3	0.06	48	
A001	4500	4800	70641	0.2	0.02	44	
A001	4800	5100	70642	0.3	-0.02	27	
A001	5100	5400	70643	0.7		95	
A001	5400	5700	70644	0.2	0.29	57	
A001	5700	6000	70645	0.3	0.32	61	
A001	6000	6300	70646	2.6	4.00	180	
A001	6300	6600	70647	-0.2	0.15	29	

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A001  6600  6900     70648   0.3  0.22    54
A001  6900  7200     70649   0.6  0.16    54
A001  7200  7500     70650   0.5  0.18    32
A001  7500  7800     70651   0.2  0.07    23
A001  7800  8100     70652   0.2  0.05    23
A001  8100  8400     70653  -0.2  0.04    12
A001  8400  8700     70654  -0.2  0.07    24
A001  8700  9000     70655  -0.2  0.06    27
A001  9000  9300     70656  -0.2  0.08    27
A001  9300  9600     70657  -0.2  0.05    16
A001  9600  9900     70658   0.2  0.07     2
A001  9900 10200     70659   0.2  0.09    31
A001 10200 10500     70660   0.2  0.08    32
A001 10500 10800     70661  -0.2  0.07    24
A001 10800 11100     70662  -0.2  0.06    21
A001 11100 11400     70663  -0.2  0.04    14
A001 11400 11700     70664  -0.2  0.04     7
A001 11700 12000     70665  -0.2  0.05     5
A001 12000 12300     70666  -0.2  0.05    12
A001 12300 12600     70667  -0.2 -0.02    12
A001 12600 12900     70668  -0.2 -0.02    11
A001 12900 13288     70669  -0.2 -0.02    16
/END
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