

Latitude 15450E
 Departure 12750N
 Elevation 3800'
 Dip at Collar -90°
 Bearing ***°

Total Depth 572.1m Core Size NQ

Remarks Stored at Buchans core storage facility.

THUNDERWOOD RESOURCES LIMITED
 DIAMOND DRILL CORE LOG

Tests Magnetic Corrected
 Depth Dip Bearing Bearing

ROTODIP and TROPARI Tests listed on last page.

Shant No 1 of 7
 Licence No. 4273 Hole No. MB95-01
 Property Middle Branch - Buchans
 NTS 12A/15 Grid Name Buchans Mine Grid
 Date Started Jan 28/95 Completed Feb 8/95
 Contractor Petro Drilling
 Logged By Peter Tallman

Depth & Lithology	Description	Alteration	Mineralization	Remarks
0.0-20.1 LUNDBERG HILL FORMATION 20.1-77.0 Felsic Pyroclastics	Overburden. (30 feet of H-casing from 0 to 9.1 m. 66 feet of N-casing from 0 to 20.1 m.). Casing left in hole. Green-grey, f-mgd, massive to weakly laminated. Non-magnetic except as noted. Matrix is chl-ser-qtz with tuffaceous clastic particles. Green chlorite-rich beds contain epidotized fsp grains, black chlorite "clasts", and rare qtz eyes all < 2mm. Grey sericite-rich beds contain fsp-qtz and 5-10% PY disseminated. Grey-green aphanitic mudstone-siltstone units contain variable amounts of plag > qtz grains and 2-10% PY disseminated. Bedding interlayered on 0.5-2.0 m scale.		5-10% PY associated w. sericitic lithologies	
77.0-78.1 Felsic dykes	77.0-77.5: Felsic dyke, aphanitic w. minor 5mm subround qtz eyes in relict zones, otherwise diffusely silicified (quenched). 77.5-77.7: Intermediate pyroclastic comprised of moderate chl-matrix w. 1-3mm lithic fragments, rare subround qtz-eyes 2-5mm, 2-5% fgd PY disseminated along foliation 80°. 77.7-78.1: Felsic dyke, aphanitic as above. Distinct irregular upper contact 65°. Brecciated toward bottom w. 2 cm QV in 5cm bx-zone @78.05-78.1m containing 2% fgd PY disseminated in bx-matrix.			
78.1-99.8 Intermediate Volcaniclastic	Grey-green colour w. chlorite dominant in matrix. Lithic fragments throughout. Prominent pinkish flattened clasts to 3 cm with 3 mm qtz-fsp clasts to 20% of lithology. Textures vary from banded on cm scale (generally flattened) to massive. Very rare 10cm zones contain epidote balls to 5 mm. Magnetite-rich beds throughout in 1-10cm zones beginning at 85.5-85.6 and especially common in interval 85.5-89.5m.		78.1-99.8 Disseminated fgd PY along foliation to 2% throughout	
99.8-108.2 Mafic Tuff	Dark green, fgd chloritic matrix w. prominent epidotized feldspars 1-5mm throughout to 20% of lithology. Weakly bedded on cm scale. Rare wispy flattened lithic fragments. Weakly magnetic and contains 1-5cm bands of darker, strongly magnetic beds. Gradational upper and lower contacts. @103.5-103.55m: ribbon QV w. chl-epid. selvages, 20% fgd PY aggregates and a 1x3 mm clot of SPH. w. tr CPY and unidentified fgd nonmagnetic metallic mineral w. black lustre. @107.6-108.0: 1cm wide ribbon QV w. black chlorite trends 20°. Network of 1mm epid.-filled fractures 45° from QV have pink HEM. alteration.		99.8-108.2 Very rare PY disseminated along foliation @103.6-103.55 QV w. PY-SPH-CPY (box 20)	99.8-108.2 Foliation parallel bedding 70-80°

THUNDERWOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. ... 2 of 7
Property Middle Branch - Buchans
Hole No. MB95-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
108.2-123.5 Mafic Tuff	Green grey, fgd, massive to banded w. 20% matrix supported clasts. Matrix is chl-fsp. Banding/bedding defined on cm-scale by variations in chl/fsp content. Clasts are 1-5mm size and locally to > 1cm, variably flattened. Porphyritic rhyolite clasts are larger to 2cm and subround. Others are wispy, attenuated, light coloured fragments 1-10mm in length. Lower contact sharp 10°.		Trace PY disseminated along foliation.	Foliation 75° parallel layering. Rare kink band @109.9m trends 45°
123.5-124.4 Rhyolite	Greenish-pink colour. Flow banded upper margin from 123.5-123.7m. Massive, w. 1mm fsp 'spots' in aphanitic matrix. Locally fractured w. black chlorite lining. Lower contact sharp 65°.			
124.4-184.5 Mafic Tuff	124.4-133.5m: 30% subround clasts to 1cm size of various lithologies including porphyritic rhyolite, rhyolite, fsp clasts, epid. clasts, black strongly magnetic clasts w. qtz eyes, various mafic clasts etc.. Chloritic matrix 70% of lith. 133.5-184.5: similar to 108.2-123.5m interval. Common 1-5cm magnetic bands in upper half of unit, rare in lower half. Variably foliated and flattened; flattened sections have wispy banded appearance and minor QCV's. Lower contact @184.5m is 3cm breccia zone w. 1cm QV trending 20° @166.25-166.3m ribbon 5cm QV w. 20% aggregates of fgd PY plus minor metallic mineral (unidentified) as before. @166.3-167.5 Mafic sill, vfg, chl-plag w distinctive black specks (chloritized mafic fragments?). Sharp contacts 60° upper and lower parallel foliation. @182.6-182.9 Mafic sill/dyke, magnetic, weakly foliated 75° w. QV's on both contacts.			Bedding 65-90° Foliation 65-80° @133.5-156.4
184.5-203.8 Polylitic Fragmental or Conglomerate	Chloritic matrix w. 30% subround clasts. Larger clasts dominantly felsic, 0.5-2.0cm size. Smaller clasts 0.3-1.0cm are mafic or feldspar fragments (some epidotized). Local 5-10cm interlayered magnetic beds. @184.5-196.8: Same lithology as 124.4-133.5. @196.8-197.1: High strain/shear zone. (intraformational thrust?). 1cm fault gouge @196.8 with no deformation in unit above. Below gouge, clasts are stretched 20:1; kinked and disaggregated in interval 196.8-196.9m, well foliated 75° from 196.9-197.1m (box 42). @197.1-203.8: Moderate stretching from 197.1-197.5 decreasing downhole. Lithology is 30% pink qtz-fsp porphyritic rhyolite clasts 1-10cm in size in chloritic matrix. Local 1-3cm black magnetic layers interbedded. @202.2-203.0: Plag phyric unfol'd mafic dyke w. 5cm epidotized margins. (Note plag pheno's have preferred orientation 60° parallel fol'n). Both contacts 60°.			
203.8-204.0 Fault Breccia	Silica flooded, QV'd fault breccia w. 1cm wallrock fragments, QV fragments and dark green-black chlorite. Fault trends ~30°. Lower 3cm of unit is fault gouge. Re-activated thrust fault plane.			

THUNDER WOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. ... 3 of 7
Property Middle Branch - Buchana
Hole No. MB95-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
SANDY LAKE FORMATION 204.0-243.3 Mafic dykes in mafic fragmental	Mafic fragmental has dark green chloritic matrix with 20% clasts of various mafic and felsic lithologies. Prominent 1cm porph. rhyolite clasts common throughout. Local 5 cm layers of fgd chl-greywacke (e.g. @211.2, 211.9m; bedding 80° all contacts). Mafic fragmental is intruded by a variety of mafic dykes, aphanitic, plag. phyric, non- to weakly-fol'd <u>magnetic</u> dykes @205.7-206.3 w. 70° contacts parallel fol'n; @206.5-206.9 massive w. 70° contacts; @207.1-210.5 multiple dykes, massive some w. epid. chilled margins, fgd plag. phyric, all contacts sharp 80-90°; @212.0-212.3 weakly fol'd, as above; @217.9-218.8 massive, mod. HEM in fractures and clots, weakly SIL and HEM margins over 5 cm, upper contact 90°, lower contact 75°; @223.4-223.7m plag phyric dyke; @226.1-226.3 aphanitic strongly magnetic mafic dyke.			Foliation: 75° @224.6m 90° @227.5m 60° @231.0m 85° @236.8m 70° @239.9m kink band 35° @232.8m strongly contorted open kink @233.2-233.4m weak-mod, fol'd 40° @245.2m
243.3-245.4 Porphyritic rhyolite	Pinkish to grey-green colour. Qtz phenocrysts to 1.0cm. Weakly fractured. Rubble and lost core from 243.3-244.0 may include fault gouge. Lower contact may be fault?			Rubble core and prob. fault gouge @246.2-246.7m, also @247.7-248.0m.
245.4-255.0 Rhyolite flow breccia and massive pyrite	Light green colour. Pinkish angular rhyolite fragments 1-20cm size comprise up to 80% of unit w. ~20% chlorite matrix. Some fragments exhibit flow banding. @254.5-255.0: massive fgd PY layer @254.7-254.75m with minor black chlorite. @254.78-254.8: semi-massive 50% PY w. qtz and with 1cm stringers and clots throughout 0.5m zone associated w. black (hydrothermal) chlorite. Fol'n 60°. Lower contact sharp 80°.		Massive fgd PY layer @254.7-254.75m with minor black chlorite.	Rubble core @255.8-256.3m Fol'n 70° @257.0m
255.0-281.8 Polylitic fragmental	Medium-dark green, chloritic matrix w. 1mm-3cm subround to angular clasts of various lithologies. Flattened and mod. fol'd from 256.3-259.0m. Increasing calcite veining at lower contact. Contact is sharp 25°.			
281.8-289.2 Coarse polylitic fragmental w. PY clasts	Grey green chlorite-sericite matrix w. 75% subround pebbles + cobbles of varied lithologies. Felsic:mafic clasts 50:50, size 2-3cm. Very rare massive PY clasts (eg. @287.8, 288.3m) less than 1cm size. Some rhyolite clasts contain fgd PY. Fgd PY also occurs in matrix assoc'd w. black chlorite patches (eg 286.0m). @283.5-284.0: Grey, granular fgd arkose. Irregular upper contact, lower contact 45°. Unfol'd but colour banded. Mod. fractures w. CQV.		PY clasts to 1cm, also PY disseminated in rhyolite clasts.	

THUNDERWOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. . . . 4 of 7
Property Middle Branch - Buchana
Hole No. MB95-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
289.2-325.1 Altered mafic fragmental	Green, weak-mod. silicified matrix (over chlorite) with angular to subround fragments of felsic and mafic clasts 0.5-3.0cm size. Massive, unfol'd. Prominent large (2-3cm) HEM-rhyolite clasts which become increasingly common downhole. Felsic clasts have indistinct altered (resorbed) margins. Clasts in this unit appear to to have been dominantly felsic (felsic 75:25% mafic) although mafics have altered completely. Common 1mm QV's may define relict fol'n 80°. Gradational to unaltered mafic fragmental @301.5-309.0 with same clasts etc. @309.0-315.7 Mafic fragmental, clasts to 5mm, 95% mafic-intermediate composition, matrix dark green chloritic, common network QV's. @315.7-325.1 Increasing frequency and size of greyish rhyolite to 5cm. Matrix light grey-green, local patchy silicification (@321.2-321.5) w. increasingly common HEM-rhyolite clasts.	Weak-mod. silicification	Trace PY common in fractures throughout unit	
325.1-344.6 Polyolithic mafic fragmental	@325.1-326.2 Felsic tuff? with abundant qtz grains to 1cm size, abundant qtz-porph. rhyolite clasts to 5cm. Unit includes massive PY layers assoc'd w. black chlorite. One occurrence of fuchsite in tuffaceous rhyolite @325.3m. @328.2-329.0 Gradational from above. No pyrite. Prominent 2-10cm weakly HEM-rhyolite (purple grey) clasts with various mafic and intermediate lith's. @329.0-334.5 Weak silicification. Fault breccia @329.6-329.8 trends 25°. 1cm QV w 50% fgd PY 65° parallel fol'n. Zones of "buckshot" PY 2-5% disseminated @ 333.0 (5cm), 333.5 (5cm), 333.7-334.4 (only minor PY), 334.4-334.5 with massive xline PY and black chlorite stringer defining contact with unaltered material below. @334.5-335.2 Unaltered, 75% 1cm clasts various lith's including several 1cm PY clasts. Numerous 1-3mm PY stringers parallel fol'n assoc'd w. black chlorite-vein margins. Lower contact 90°. @335.2-339.0 Weak-mod. silicification, indistinct/diffuse clast boundaries. Common zones of disseminated PY, also 1-5mm stringer PY parallel fol'n 75° assoc'd w. minor black chlorite along stringer margins. @339.0-344.6 Coarse clastic. Felsic (rhyolite) clasts to 5cm. Fgd arenite @339.8-339.85 possibly interlayered or ?clast? with contacts 75°. Trace disseminated PY @340.3-340.4m. Common 1cm PY-qtz fracture veining @341.1-341.3m. Very rare > 5mm massive PY clasts (eg. @342.8m). Lower contact 45° along fracture.	Fuchsite; one occurrence Weak silicification	Massive PYRITE bands w. black chlorite "Buckshot" PY associated w. black chlorite. 5cm massive PY stringer w. interstitial black chlorite massive PY clasts >5mm, rare	

THUNDERWOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. . . . 5 of 7
Property Middle Branch - Buchans
Hole No. M295-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
344.6-357.6 Xtl-lithic mafic tuff	Homogenous, 1-5mm fsp fragments throughout, zones of 1-5mm lithic fragments common including sedimentary (siltstone/graywacke) lithologies. Common network fracturing filled by QV and QCV, locally w. minor HEM. Lower contact conformable 30°.			
357.6-436.3 Polylitic fragmental	Medium green chloritic matrix w. 1-5cm lithic fragments, 75% mafic 25% felsic. Dark chloritic angular clasts dominate. Clasts are angular (mafic) and subround (felsic). Weak-moderate flattening throughout with foliation 60°. 1cm subround pyritic rhyolite clasts @358.4m. Minor PY diss. and in fractures from 357.6-358.6m. 1 cm stringers of 80% PY 20% qtz @367.1m - 30°, 367.9m - 25°, 368.7m - 20°. Unit coarsens to <10cm size lithic clasts from 377.2m, 60% mafic 40% felsic (coarsest) clasts. @385.0m 2cm ribbon QV w. common epidote contains 10% PY disseminated w. trace CPY, trends 45° cross-cutting foliation 65°. @387.8-436.3 increase in clast density, trace PY along foliation, diss. magnetite, common leucoxene, and weak SIL overprinted by late CV's trending 70°. Some HEM-altered rhyolite clasts in lower portion of the unit. Lower contact sharp, 90°, against chilled margin of flow below.		@415.0m: 1cm QV w. 50% PY cut by later QCV w. trace diss. CPY	Foliation 60° from 365.0-374.0m Foliation 65° @ 377.0m Foliation 80° @ 377.2-381.5m
436.3-438.8 Porphyritic rhyolite	Fsp- and qtz-porphyritic rhyolite, purplish to green grey colour, siliceous. Upper margin bleached, aphanitic over 3cm. Lower contact slightly brecciated along base over 1cm with no visible contact alteration, trends 90°.			
438.8-447.1 Polylitic fragmental	Similar to 387.8-436.3m. Rare loc. PY diss. @444.1-444.3m		Minor PY seams and diss. along fractures throughout unit: common @438.1-438.8. Fractures trend 75°.	
447.1-449.4 Greywacke	Green, massive, relatively homogenous fgd lithology. Chl>ser matrix w. 1mm fsp>qtz and v. Small <1-2mm lithic fragments. Flow banded rhyolite clasts @447.3-447.4, 448.8-449.4. Lower contact along bedding plane 80°.			
449.4-457.5 Dacite fragmental	Green grey, hard siliceous matrix w. minor chlorite. Common zones of 1cm epidotized fragments and brecciated weakly silicified rhyolite clasts, local 1-3mm qtz granules, common andesitic? fragments. Some 1-5cm rhyolite clasts have dark green chlorite alteration rims. Strongly "masked" textures (weak silicification from welding) prevalent. 1-3mm stringer or fracture PY @450.1, 451.7 associated with QC-fracture vein. @453.8-453.9: 5cm QC + barite vein w. PY and trace CPY trends 65°. @454.8m: disseminated PY in 3cm chloritic zone adjacent to net-fracture QCV's w. minor CPY and PY. @456.7m: 3cm QV w. >1cm barite margin w. heavy disseminated PY trends 80°. @457.2-457.5m: fractures w. QV's host PY and trace CPY. Lower contact is gradational with lithology below.			

THUNDERWOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. . . . 6 of 7
Property Middle Branch - Buchans
Hole No. MB95-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
457.5-467.0 Andesite fragmental	Grey green colour chl-ser matrix w. abundant 75% 1-10mm subround to angular clasts. Very rare 5mm rhyolite clast (subround), very rare 1mm qtz grains, dominantly fsp and mafic clasts (to 2 cm size). Ratio 10% felsic clasts, 90% intermediate to mafic clasts. Weak clast alignment defines fol'n trends 80°. Sharp lower contact 80°.			
467.0-469.1 Andesite flow breccia	Green, vesicular flow breccia with carbonate filling amygdules. Mafic to intermediate fragments dominate 90%. Local zones of carbonate flooding where carbonate as vein and interstitial material reaches 50% of lithology. Sharp lower contact 80°.			
469.1-470.9 Rhyolite flow breccia	Grey orange colour, qtz-porphyritic rhyolite with slightly silicified appearance (indistinct mineral boundaries). Dark green chlorite-filled fractures common. A subunit of mafic tuff @469.3-469.6m.			
470.9-473.8 Rhyolite flows	Orange red coloured massive rhyolite. Four individual flows within unit w. 5-10cm interflow clay-rich breccia material. Locally qtz-porphyritic to 1cm in qtz-rich phases. Common network black-chlorite filled 1mm fractures and minor waxy greenish sericite altered from feldspar. Upper contact is 90°, lower contact is 45° along fracture.			
473.8-495.0 Altered mafic fragmental	Altered dark red and light green coloured alteration with zones of light- to medium-green coloured chloritic matrix (where preserved). Tuffaceous textures, also calcite-filled amygdules in flows equally common in unaltered lithologies. Local 0.5-1.0cm zones of subround qtz-eyes however generally qtz-absent. Abundant HEMATITE and EPIDOTE alteration of matrix and fragmental clasts. Massive alteration/replacement @485.1-489.4m. Common 1-5cm epid. or hem. rhyolite breccia fragments throughout unit. HEM and EPID alteration appears to follow foliation planes. Bedding appears to be 30° to core axis; mod.-strong foliation trends 70-90°. Lower contact is conformable 90°.			
495.0-498.0 Arkose	Pink colour, fgd (1mm size) granular sugary texture. Massive arkose. Qtz + fsp comprise 99% of lithology w. minor mafic minerals. Bedding plane between finer and coarser material @496.5-497.2 trends 20°. From 497.0-497.5, contact between HEM-basalt (above) and arkose is cored trending 0°. Lower contact is brecciated.			
498.0-508.7 Altered mafic fragmental	Same as for 473.8-495.0m. Abundant hem.-epid. alteration along foliation 70-90°. Local amygdules w. qtz and calcite, also tuffaceous fragments locally preserved. Lower contact is conformable trending 10°.			

THUNDERWOOD RESOURCES LIMITED
DIAMOND DRILL CORE LOG

Licence No. 4273 Sheet No. ... 3 of 7
Property Middle Branch - Buchans
Hole No. MS95-01

Depth & Lithology	Description	Alteration	Mineralization	Remarks
508.7-511.2 Mixed arkose and altered mafic fragmental	Same lithologies as above. Contact between arkose and altered fragmental trends 0-20° downhole and is cored continuously in this interval. Arkose is fractured along contact. Abundant brecciation and calcite veining in fragmental along contact.			
511.2-517.3 Altered mafic fragmental	Unit as above 498.0-508.7m. Strongly fractured. Common 1cm CV and QCV throughout. Very common veining @516.3-517.3 in vein-filled fracture-breccia interval. Fault gouge @512.8-512.9 appears to trend 45°. Lower contact is fault gouge and rubble core @517.2-517.3m			
517.3-534.2 Arkose	As above 495.0-498.0m; pinkish, granular lithology. Very rare 1-3cm subangular lithic clasts of rhyolite (resembling rhyolite section @470.9-473.8m). Weak bedding @532.3 trends 15°. Lower contact along 1cm ribbon QV trending 45°, non-conformable.			
534.2-539.7 Altered mafic fragmental	Weak and localized HEM. alteration. Common EPID alteration of clasts and matrix as above. Amygdulose and tuffaceous fragments locally preserved. Four 10+cm thick purple siltstone beds w. 3-5mm hornfelsed margins @534.0m, 535.4m, 535.7, 536.9-537.8m with bedding 45° for the first three and 5° for the latter. Lower unit contact trends 80°.			distinctive purple siltstone beds
539.7-554.1 Basalt flow and flow breccia	Medium-dark green colour. Chlorite-calcite filled amygdulose common from 539.7-546.2m. @541.8m: 5mm calcite-qtz-barite fracture vein trends 70°. @543.7m: 5cm ribbon QV w. minor calcite and trace barite lining internal fractures trends 45°. @546.2-546.5m: abundant leucoxene @546.5-549.3m: massive intermediate flow, more siliceous cf. above. Fsp weakly altered to sericite throughout subunit. Abrupt upper contact 80°, lower contact gradational. @549.3-553.1: massive mafic flow, locally brecciated. @553.1-554.1: massive vesicular flow.			barite in fracture veins
554.1-558.0 Altered mafic fragmental	HEM. - weak EPID. alt'd mafic fragmental. Local vesicles preserved in flow portion of unit. Dominantly fragmental, v. 1-10cm alt'd rhyolite clasts. Irregular lower contact 40°.			
558.0-572.1 Arkose	Pink colour, massive, granular, 1-3mm size grains. Grains are comprised of k-feld, plag, qtz, and minor mafic mineral grains/rock fragments. Slightly coarser cf. other units higher in hole. One 2 cm subround mafic clast @561.1m. E.O.H. 572.1 m (1877 ft).			

APPENDIX III: ROTODIP TESTS FROM HOLE MB95-01

DEPTH (FT)	DEPTH (M)	ANGLE (DEGREE)
1104	336.5	87
1124	342.6	87
1144	348.7	87
1197	364.9	88
1217	370.9	89
1237	377.0	89
1257	383.1	88
1277	389.2	88
1284	391.4	87
1304	397.5	87
1324	403.6	90
1344	409.7	88
1364	415.8	90
1384	421.8	87
1417	431.9	88
1437	438.0	88
1457	444.1	89
1477	450.2	88
1497	456.3	88
1504	458.4	88
1524	464.5	88
1544	470.6	88
1564	476.7	88
1584	482.8	88
1617	492.9	88
1637	499.0	88
1657	505.1	88
1677	511.2	88
1693	516.0	88
1713	522.1	88
1733	528.2	88
1747	532.5	88
1757	535.5	88
1777	541.6	88
1797	547.7	89
1837	559.9	89
1857	566.0	88

APPENDIX III: TROPARI TESTS FROM HOLE MB95-01

DEPTH (FT)	DEPTH (M)	ANGLE (DEGREE)	MAGNETIC AZIMUTH (DEGREE)	1995 CORRECTED (DEGREE)
402	122.5	86	247	274
1062	323.7	84	235	262
1862	567.5	83	227	254

**APPENDIX III: THUNDERWOOD RESOURCES DDH MB95-01:
METERS PER BOX RECORD**

BOX FROM TO	BOX FROM TO	BOX FROM TO
1 20.3 23.6	45 205.9 210.0	89 390.1 394.7
2 23.6 27.5	46 210.0 214.4	90 394.7 398.8
3 27.5 31.4	47 214.4 218.5	91 398.8 403.0
4 31.4 35.7	48 218.5 222.7	92 403.0 407.3
5 35.7 40.0	49 222.7 226.8	93 407.3 411.6
6 40.0 44.3	50 226.8 230.8	94 411.6 416.0
7 44.3 48.6	51 230.8 235.1	95 416.0 420.2
8 48.6 52.7	52 235.1 239.5	96 420.2 424.7
9 52.7 57.0	53 239.5 243.4	97 424.7 428.9
10 57.0 61.2	54 243.4 247.2	98 428.9 433.0
11 61.2 65.5	55 247.2 251.1	99 433.0 437.3
12 65.5 69.9	56 251.1 255.3	100 437.3 441.6
13 69.9 74.0	57 255.3 259.2	101 441.6 445.6
14 74.0 78.0	58 259.2 263.4	102 445.6 449.9
15 78.0 82.2	59 263.4 267.6	103 449.9 454.2
16 82.2 86.8	60 267.6 271.7	104 454.2 458.4
17 86.8 91.0	61 271.7 276.0	105 458.4 462.3
18 91.0 95.6	62 276.0 280.1	106 462.3 467.0
19 95.6 99.6	63 280.1 284.4	107 467.0 471.2
20 99.6 103.8	64 284.4 288.4	108 471.2 475.4
21 103.8 108.2	65 288.4 292.7	109 475.4 479.7
22 108.2 112.3	66 292.7 296.9	110 479.7 484.0
23 112.3 116.4	67 296.9 300.9	111 484.0 488.4
24 116.4 120.6	68 300.9 305.2	112 488.4 492.8
25 120.6 124.6	69 305.2 309.5	113 492.8 496.9
26 124.6 128.7	70 309.5 313.6	114 496.9 501.1
27 128.7 133.0	71 313.6 318.0	115 501.1 505.3
28 133.0 137.2	72 318.0 322.2	116 505.3 509.1
29 137.2 141.4	73 322.2 326.5	117 509.1 512.7
30 141.4 145.8	74 326.5 330.6	118 512.7 516.8
31 145.8 150.2	75 330.6 334.9	119 516.8 521.2
32 150.2 154.2	76 334.9 338.9	120 521.2 525.4
33 154.2 159.1	77 338.9 343.5	121 525.4 529.6
34 159.1 163.2	78 343.5 347.7	122 529.6 533.9
35 163.2 167.3	79 347.7 352.0	123 533.9 538.2
36 167.3 171.6	80 352.0 256.0	124 538.2 542.1
37 171.6 175.8	81 256.0 360.3	125 542.1 546.3
38 175.8 180.0	82 360.3 364.8	126 546.3 550.4
39 180.0 184.3	83 364.8 368.8	127 550.4 554.6
40 184.3 188.7	84 368.8 373.1	128 554.6 538.8
41 188.7 193.0	85 373.1 377.2	129 538.8 563.1
42 193.0 197.2	86 377.2 381.5	130 563.1 567.4
43 197.2 201.6	87 381.5 386.0	131 567.4 571.8
44 201.6 205.9	88 386.0 390.1	132 571.8 572.1