Numerical Modeling data

C.1. Shaft barrel RCF plots (F=0.7)

Figure C-1 RCF of shaft barrel at STEP 1

Figure C-2 RCF of shaft barrel at STEP 2
Figure C-3 RCF of shaft barrel at STEP 3

Figure C-4 RCF of shaft barrel at STEP 4
Figure C-5 RCF of shaft barrel at STEP 5

Figure C-6 RCF of shaft barrel at STEP 6
Figure C-7 RCF of shaft barrel at STEP 7

Figure C-8 RCF of shaft barrel at STEP 8
Figure C-9 RCF of shaft barrel at STEP 9

Figure C-10 RCF of shaft barrel at STEP 10
Figure C-11 RCF of shaft barrel at STEP 11

Figure C-12 RCF of shaft barrel at STEP 12
Figure C-13 RCF of shaft barrel at STEP 13

Figure C-14 RCF of shaft barrel at STEP 14
Figure C-15 RCF of shaft barrel at STEP 15
C.2. Shaft barrel closure plots (F=0.7)

Figure C-16 UY closure at STEP 1

Figure C-17 UY closure at STEP 2
Figure C-18 UY closure at STEP 3

Figure C-19 UY closure at STEP 4
Figure C-20 UY closure at STEP 5

Figure C-21 UY closure at STEP 6
Figure C-22 UY closure at STEP 7

Figure C-23 UY closure at STEP 8
Figure C-24 UY closure at STEP 9

Figure C-25 UY closure at STEP 10
Figure C-26 UY closure at STEP 11

Figure C-27 UY closure at STEP 12
Figure C-28 UY closure at STEP 13

Figure C-29 UY closure at STEP 14
Figure C-30 UY closure at STEP 15

Figure C-31 UX closure at STEP 1
Figure C-32 UX closure at STEP 2

Figure C-33 UX closure at STEP 3
Figure C-34 UX closure at STEP 4

Figure C-35 UX closure at STEP 5
Figure C-36 UX closure at STEP 6

Figure C-37 UX closure at STEP 7
Figure C-38 UX closure at STEP 8

Figure C-39 UX closure at STEP 9
Figure C-40 UX closure at STEP 10

Figure C-41 UX closure at STEP 11
Figure C-42 UX closure at STEP 12

Figure C-43 UX closure at STEP 13
Figure C-44 UX closure at STEP 14

Figure C-45 UX closure at STEP 15
Figure C-46 UZ closure at STEP 1

Figure C-47 UZ closure at STEP 2
Figure C-48 UZ closure at STEP 3

Figure C-49 UZ closure at STEP 4
Figure C-50 UZ closure at STEP 5

Figure C-51 UZ closure at STEP 6
Figure C-52 UZ closure at STEP 7

Figure C-53 UZ closure at STEP 8
Figure C-54 UZ closure at STEP 9

Figure C-55 UZ closure at STEP 10
Figure C-56 UZ closure at STEP 11

Figure C-57 UZ closure at STEP 12
Figure C-58 UZ closure at STEP 13

Figure C-59 UZ closure at STEP 14
Figure C-60 UZ closure at STEP 15
C.3. Faults’ assessment

C.3.1. Kate’s Fault ESS

Figure C-61 ESS line plot at column 9 of Kate’s Fault at STEP 1

Figure C-62 ESS line plot at column 9 of Kate’s Fault at STEP 2
Figure C-63 ESS line plot at column 9 of Kate’s Fault at STEP 3

Figure C-64 ESS line plot at column 9 of Kate’s Fault at STEP 4
Figure C-65 ESS line plot at column 9 of Kate’s Fault at STEP 5

Figure C-66 ESS line plot at column 9 of Kate’s Fault at STEP 6
Figure C-67 ESS line plot at column 9 of Kate’s Fault at STEP 7

Figure C-68 ESS line plot at column 9 of Kate’s Fault at STEP 8
Figure C-69 ESS line plot at column 9 of Kate’s Fault at STEP 9

Figure C-70 ESS line plot at column 9 of Kate’s Fault at STEP 10
Figure C-71 ESS line plot at column 9 of Kate’s Fault at STEP 11

Figure C-72 ESS line plot at column 9 of Kate’s Fault at STEP 12
Figure C-73 ESS line plot at column 9 of Kate’s Fault at STEP 13

Figure C-74 ESS line plot at column 9 of Kate’s Fault at STEP 14
Figure C-75 ESS line plot at column 9 of Kate’s Fault at STEP 15
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Table C-1 Comparison of ESS values across mining steps for Kate’s Fault
C.3.2. Murray Fault ESS

Figure C-76 ESS line plot at column 19 of Murray Fault at STEP 1

Figure C-77 ESS line plot at column 19 of Murray Fault at STEP 2
Figure C-78 ESS line plot at column 19 of Murray Fault at STEP 3

Figure C-79 ESS line plot at column 19 of Murray Fault at STEP 4
Figure C-80 ESS line plot at column 19 of Murray Fault at STEP 5

Figure C-81 ESS line plot at column 19 of Murray Fault at STEP 6
Figure C-82 ESS line plot at column 19 of Murray Fault at STEP 7

Figure C-83 ESS line plot at column 19 of Murray Fault at STEP 8
Figure C-84 ESS line plot at column 19 of Murray Fault at STEP 9

Figure C-85 ESS line plot at column 19 of Murray Fault at STEP 10
Figure C-86 ESS line plot at column 19 of Murray Fault at STEP 11

Figure C-87 ESS line plot at column 19 of Murray Fault at STEP 12
Figure C-88 ESS line plot at column 19 of Murray Fault at STEP 13

Figure C-89 ESS line plot at column 19 of Murray Fault at STEP 14
Figure C-90 ESS line plot at column 19 of Murray Fault at STEP 15
C.3.3. Smith Fault ESS

Figure C-91 ESS line plot at column 19 of Smith Fault at STEP 1

Figure C-92 ESS line plot at column 19 of Smith Fault at STEP 2
Figure C-93 ESS line plot at column 19 of Smith Fault at STEP 3

Figure C-94 ESS line plot at column 19 of Smith Fault at STEP 4
Figure C-95 ESS line plot at column 19 of Smith Fault at STEP 5

Figure C-96 ESS line plot at column 19 of Smith Fault at STEP 6
Figure C-97 ESS line plot at column 19 of Smith Fault at STEP 7

Figure C-98 ESS line plot at column 19 of Smith Fault at STEP 8
Figure C-99 ESS line plot at column 19 of Smith Fault at STEP 9

Figure C-100 ESS line plot at column 19 of Smith Fault at STEP 10
Figure C-101 ESS line plot at column 19 of Smith Fault at STEP 11

Figure C-102 ESS line plot at column 19 of Smith Fault at STEP 12
Figure C-103 ESS line plot at column 19 of Smith Fault at STEP 13

Figure C-104 ESS line plot at column 19 of Smith Fault at STEP 14
Figure C-105 ESS line plot at column 19 of Smith Fault at STEP 15
C. 3.4. Shane’s Fault ESS

Figure C-106 ESS line plot at column 21 of Shane’s Fault at STEP 1

Figure C-107 ESS line plot at column 21 of Shane’s Fault at STEP 2
Figure C-108 ESS line plot at column 21 of Shane’s Fault at STEP 3

Figure C-109 ESS line plot at column 21 of Shane’s Fault at STEP 4
Figure C-110 ESS line plot at column 21 of Shane’s Fault at STEP 5

Figure C-111 ESS line plot at column 21 of Shane’s Fault at STEP 6
Figure C-112 ESS line plot at column 21 of Shane’s Fault at STEP 7

Figure C-113 ESS line plot at column 21 of Shane’s Fault at STEP 8
Figure C-114 ESS line plot at column 21 of Shane’s Fault at STEP 9

Figure C-115 ESS line plot at column 21 of Shane’s Fault at STEP 10
Figure C-116 ESS line plot at column 21 of Shane’s Fault at STEP 11

Figure C-117 ESS line plot at column 21 of Shane’s Fault at STEP 12
Figure C-118 ESS line plot at column 21 of Shane’s Fault at STEP 13

Figure C-119 ESS line plot at column 21 of Shane’s Fault at STEP 14
Figure C-120 ESS line plot at column 21 of Shane’s Fault at STEP 15
C.4. Regional Stability Pillars

Figure C-121 Line plot at row 98 of Regional Stability Pillar XX at STEP 10

Figure C-122 Line plot at row 98 of Regional Stability Pillar XX at STEP 11
Figure C-123 Line plot at row 98 of Regional Stability Pillar XX at STEP 12

Figure C-124 Line plot at row 98 of Regional Stability Pillar XX at STEP 13
Figure C-125 Line plot at row 98 of Regional Stability Pillar XX at STEP 15

Figure C-126 Line plot at row 52 (SECTION P-Q) of Regional Stability Pillar ZZ at STEP 14
Figure C-127 Line plot at row 52 (SECTION P-Q) of Regional Stability Pillar ZZ at STEP 15

Figure C-128 Line plot at row 52 (SECTION R-S) of Regional Stability Pillar ZZ at STEP 14
Figure C-129 Line plot at row 52 (SECTION R-S) of Regional Stability Pillar ZZ at STEP 15
C.5. Mining geometry assessment

C.5.1. Block A - Closure (DZ)

Figure C-130 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 1

Figure C-131 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 2
Figure C-132 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 3

Figure C-133 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 4
Figure C-134 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 5

Figure C-135 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 6
Figure C-136 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 7

Figure C-137 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 8
Figure C-138 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 9

Figure C-139 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 10
Figure C-140 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 11

Figure C-141 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 12
Figure C-142 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 13

Figure C-143 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 14
Figure C-144 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block A at STEP 15
C.5.2. Block B - Closure (DZ)

Figure C-145 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 1

Figure C-146 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 2
Figure C-147 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 3

Figure C-148 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 4
Figure C-149 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 5

Figure C-150 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 6
Figure C-151 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 7

Figure C-152 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 8
Figure C-153 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 9

Figure C-154 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 10
Figure C-155 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 11

Figure C-156 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 12
Figure C-157 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 13

Figure C-158 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 14
Figure C-159 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block B at STEP 15
C.5.3. Block C - Closure (DZ)

Figure C-160 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 8

Figure C-161 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 9
Figure C-162 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 10

Figure C-163 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 11
Figure C-164 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 12

Figure C-165 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 13
Figure C-166 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 14

Figure C-167 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block C at STEP 15
C.5.4. Block D - Closure (DZ)

Figure C-168 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 1

Figure C-169 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 2
Figure C-170 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 3

Figure C-171 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 4
Figure C-172 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 5

Figure C-173 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 8
Figure C-174 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 9

Figure C-175 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 10
Figure C-176 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 11

Figure C-177 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 12
Figure C-178 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 13

Figure C-179 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 14
Figure C-180 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block D at STEP 15
C.5.5. Block E - Closure (DZ)

Figure C-181 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 1

Figure C-182 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 2
Figure C-183 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 3

Figure C-184 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 4
Figure C-185 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 5

Figure C-186 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 6
Figure C-187 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 7

Figure C-188 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 8
Figure C-189 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 9

Figure C-190 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 10
Figure C-191 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 11

Figure C-192 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 12
Figure C-193 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 13

Figure C-194 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 14
Figure C-195 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block E at STEP 15
C.5.6. Block F - Closure (DZ)

Figure C-196 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 8

Figure C-197 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 9
Figure C-198 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 10

Figure C-199 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 11
Figure C-200 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 12

Figure C-201 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 13
Figure C-201 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 14

Figure C-202 Contour plot of closure (DZ) of Ya Rona shaft barrel area in Block F at STEP 15