

**HARMONY MINERAL RESOURCES AS @ JUNE 2017**

**GOLD**

OPERATIONS	
Tshepong Operations	
Bambanani	
Unisel	
Doomkop SR	
Doomkop MR	
<b>TOTAL (Doomkop)</b>	
Kusasaletu	
Target 1	
Target 3	
Masimong	
Joel	
<b>TOTAL SA U/G OPS</b>	

Measured				Indicated				Inferred				Total Mineral Resource			
tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
24 590 418	11.21	275 734	8 865	11 874 577	10.27	121 896	3 919	34 347 831	9.25	317 733	10 215	70 812 827	10.10	715 362	22 999
936 772	15.15	14 196	456	-	-	-	-	-	-	-	-	936 772	15.15	14 196	456
1 338 977	7.02	9 400	302	1 214 794	6.93	8 420	271	64 437	6.54	422	14	2 618 208	6.97	18 241	586
2 762 137	8.04	22 208	714	3 593 969	8.07	28 990	932	10 585 187	7.78	82 361	2 648	16 941 292	7.88	133 559	4 294
80 896	5.38	435	14	45 963	5.51	253	8	16 953	5.32	90	3	143 812	5.41	778	25
<b>2 843 032</b>	<b>7.96</b>	<b>22 643</b>	<b>728</b>	<b>3 639 932</b>	<b>8.03</b>	<b>29 243</b>	<b>940</b>	<b>10 602 140</b>	<b>7.78</b>	<b>82 451</b>	<b>2 651</b>	<b>17 085 104</b>	<b>7.86</b>	<b>134 337</b>	<b>4 319</b>
3 138 277	12.08	37 924	1 219	20 041 654	8.70	174 295	5 604	1 926 431	8.77	16 903	543	25 106 362	9.13	229 123	7 366
7 849 319	8.27	64 887	2 086	7 036 100	7.78	54 763	1 761	4 181 882	5.79	24 226	779	19 067 302	7.55	143 876	4 626
7 027 210	9.10	63 965	2 057	4 655 267	7.10	33 059	1 063	-	-	-	-	11 682 476	8.31	97 025	3 119
3 528 916	6.80	24 001	772	976 579	5.29	5 166	166	273 615	3.18	870	28	4 779 109	6.28	30 037	966
2 628 347	8.40	22 066	709	5 194 228	8.51	44 207	1 421	180 948	8.06	1 458	47	8 003 523	8.46	67 731	2 178
<b>53 881 268</b>	<b>9.93</b>	<b>534 817</b>	<b>17 195</b>	<b>54 633 131</b>	<b>8.62</b>	<b>471 049</b>	<b>15 145</b>	<b>51 577 285</b>	<b>8.61</b>	<b>444 063</b>	<b>14 277</b>	<b>160 091 684</b>	<b>9.06</b>	<b>1 449 929</b>	<b>46 616</b>

**SA SURFACE SOURCES**

Kalgold	
Phoenix	
St Helena	
Central	
Other :	
WRD	
Tailings	
<b>TOTAL</b>	
Kalgold Tailings Dam	
<b>TOTAL SA S/SOURCES(Incl Kalgold)</b>	
<b>TOTAL SA S/SOURCES (Excl Kalgold)</b>	
<b>TOTAL SA OPS (U/g &amp; Surface) Incl Kalgold</b>	

5 447 558	0.84	4 587	147	29 941 456	0.96	28 821	927	6 245 125	0.99	6 171	198	41 634 138	0.95	39 580	1 273
73 007 422	0.28	20 108	646	-	-	-	-	-	-	-	-	73 007 422	0.28	20 108	646
191 348 359	0.27	51 517	1 656	-	-	-	-	-	-	-	-	191 348 359	0.27	51 517	1 656
-	-	-	-	67 334 859	0.27	17 852	574	-	-	-	-	67 334 859	0.27	17 852	574
-	-	-	-	3 911 476	0.51	1 996	64	19 793 299	0.42	8 391	270	23 704 775	0.44	10 387	334
-	-	-	-	548 325 196	0.23	125 271	4 028	15 459 021	0.19	2 937	94	563 784 218	0.23	128 208	4 122
-	-	-	-	<b>552 236 672</b>	<b>0.23</b>	<b>127 267</b>	<b>4 092</b>	<b>35 252 320</b>	<b>0.32</b>	<b>11 328</b>	<b>364</b>	<b>587 488 992</b>	<b>0.24</b>	<b>138 595</b>	<b>4 456</b>
-	-	-	-	-	-	-	-	23 802 213	0.26	6 263	201	23 802 213	0.26	6 263	201
269 803 339	0.28	76 212	2 450	649 512 987	0.27	173 940	5 592	65 299 659	0.36	23 762	764	984 615 984	0.28	273 914	8 807
<b>264 355 781</b>	<b>0.27</b>	<b>71 625</b>	<b>2 303</b>	<b>619 571 531</b>	<b>0.23</b>	<b>145 119</b>	<b>4 666</b>	<b>35 252 320</b>	<b>0.32</b>	<b>11 328</b>	<b>364</b>	<b>919 179 633</b>	<b>0.25</b>	<b>228 072</b>	<b>7 333</b>
<b>323 684 607</b>		<b>611 029</b>	<b>19 645</b>	<b>704 146 118</b>		<b>644 989</b>	<b>20 737</b>	<b>116 876 943</b>		<b>467 825</b>	<b>15 041</b>	<b>1 144 707 668</b>		<b>1 723 843</b>	<b>55 423</b>

**PAPUA NEW GUINEA**

Hidden Valley/Kaveroi
Hamata
Wafi <sup>1</sup>
Golpu <sup>1</sup>
Nambonga <sup>1</sup>
Kili Teke
<b>TOTAL PAPUA NEW GUINEA</b>

429 678	1.04	446	14	79 445 757	1.49	118 052	3 795	2 391 578	1.14	2 716	87	82 267 013	1.47	121 214	3 897
64 516	1.09	70	2	2 716 541	1.96	5 324	171	216 406	1.46	315	10	2 997 463	1.90	5 710	184
-	-	-	-	56 730 743	1.72	97 853	3 146	11 341 743	1.30	14 774	475	68 072 486	1.65	112 626	3 621
-	-	-	-	344 005 825	0.71	245 884	7 905	67 893 410	0.63	42 832	1 377	411 899 235	0.70	288 717	9 282
-	-	-	-	-	-	-	-	19 916 189	0.79	15 769	507	19 916 189	0.79	15 769	507
-	-	-	-	-	-	-	-	236 964 080	0.24	56 303	1 810	236 964 080	0.24	56 303	1 810
<b>494 194</b>	<b>1.04</b>	<b>516</b>	<b>17</b>	<b>482 898 866</b>	<b>0.97</b>	<b>467 113</b>	<b>15 018</b>	<b>338 723 406</b>	<b>0.39</b>	<b>132 710</b>	<b>4 267</b>	<b>822 116 466</b>	<b>0.73</b>	<b>600 339</b>	<b>19 301</b>

**TOTAL HARMONY MINERAL RESOURCES**

<b>324 178 801</b>		<b>611 545</b>	<b>19 662</b>	<b>1 187 044 984</b>		<b>1 112 102</b>	<b>35 755</b>	<b>455 600 349</b>		<b>600 535</b>	<b>19 308</b>	<b>1 966 824 134</b>		<b>2 324 182</b>	<b>74 724</b>
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**OTHER METALS**

**PAPUA NEW GUINEA**

<b>SILVER</b>
Hidden Valley
Golpu <sup>1</sup>
Nambonga <sup>1</sup>
<b>TOTAL</b>

tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)
429 678	19.73	8 475	272	79 445 757	28.69	2 279 027	73 272	2 391 578	29.01	69 383	2 231	82 267 013	28.65	2 356 886	75 776
-	-	-	-	344 005 825	1.29	443 136	14 247	67 893 410	1.06	72 214	2 322	411 899 235	1.25	515 350	16 589
-	-	-	-	-	-	-	-	19 916 189	2.87	57 159	1 838	19 916 189	2.87	57 159	1 838
<b>429 678</b>	<b>19.73</b>	<b>8 475</b>	<b>272</b>	<b>423 451 582</b>	<b>6.43</b>	<b>2 722 163</b>	<b>87 519</b>	<b>90 201 177</b>	<b>2.20</b>	<b>198 756</b>	<b>6 390</b>	<b>514 082 437</b>	<b>5.70</b>	<b>2 929 395</b>	<b>94 182</b>

**COPPER**

Golpu <sup>1</sup>
Nambonga <sup>1</sup>
Kili Teke
<b>TOTAL</b>

tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)
-	-	-	-	344 005 825	1.09	3 734	8 232	67 893 410	0.85	577	1 273	411 899 235	1.05	4 311	9 505
-	-	-	-	-	-	-	-	19 916 189	0.21	42	92	19 916 189	0.21	42	92
-	-	-	-	-	-	-	-	236 964 080	0.34	802	1 767	236 964 080	0.34	802	1 767
-	-	-	-	<b>344 005 825</b>	<b>1.09</b>	<b>3 734</b>	<b>8 232</b>	<b>324 773 679</b>	<b>0.44</b>	<b>1 421</b>	<b>3 132</b>	<b>668 779 504</b>	<b>0.77</b>	<b>5 155</b>	<b>11 364</b>

**MOLYBDENUM**

Golpu <sup>1</sup>
Kili Teke
<b>TOTAL</b>

tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)
-	-	-	-	344 005 825	94	32	71	67 893 410	72	5	11	411 899 235	90	37	82
-	-	-	-	-	-	-	-	236 964 080	168	40	88	236 964 080	168	40	88
-	-	-	-	<b>344 005 825</b>	<b>94</b>	<b>32</b>	<b>71</b>	<b>304 857 490</b>	<b>146</b>	<b>45</b>	<b>98</b>	<b>648 863 315</b>	<b>118</b>	<b>77</b>	<b>169</b>

**GOLD EQUIVALENTS**

**SILVER: as gold equivalents**

Hidden Valley
<b>TOTAL</b>

tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
429 678		114	4	79 445 757		34 200	1 100	2 391 578		1 047	34	82 267 013		35 361	1 137
<b>429 678</b>		<b>114</b>	<b>4</b>	<b>79 445 757</b>		<b>34 200</b>	<b>1 100</b>	<b>2 391 578</b>		<b>1 047</b>	<b>34</b>	<b>82 267 013</b>		<b>35 361</b>	<b>1 137</b>

**COPPER: as gold equivalents**

Golpu <sup>1</sup>
Nambonga <sup>1</sup>
Kili Teke
<b>TOTAL</b>

tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
-	-	-	-	344 005 825		639 943	20 575	67 893 410		98 922	3 180	411 899 235		738 865	23 755
-	-	-	-	-	-	-	-	19 916 189		7 294	235	19 916 189		7 294	235
-	-	-	-	-	-	-	-	236 964 080		137 347	4 416	236 964 080		137 347	4 416
-	-	-	-	<b>344 005 825</b>		<b>639 943</b>	<b>20 575</b>	<b>324 773 679</b>		<b>243 563</b>	<b>7 831</b>	<b>668 779 504</b>		<b>883 507</b>	<b>28 405</b>

**Total silver and copper as gold equivalents**

<b>429 678</b>		<b>114</b>	<b>4</b>	<b>423 451 582</b>		<b>674 143</b>	<b>21 674</b>	<b>327 165 257</b>		<b>244 610</b>	<b>7 864</b>	<b>751 046 517</b>		<b>918 868</b>	<b>29 542</b>
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**Total PNG (including gold equivalents)**

<b>494 194</b>		<b>630</b>	<b>20</b>	<b>482 898 866</b>		<b>1 141 256</b>	<b>36 692</b>	<b>338 723 406</b>		<b>377 320</b>	<b>12 131</b>	<b>822 116 466</b>		<b>1 519 207</b>	<b>48 844</b>
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**TOTAL HARMONY MINERAL RESOURCES (incl gold equivalents)**

tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)
<b>324 178 801</b>	<b>611 659</b>	<b>19 665</b>	<b>1 187 044 984</b>	<b>1 786 245</b>	<b>57 429</b>	<b>455 600 349</b>	<b>845 146</b>	<b>27 172</b>	<b>1 966 824 134</b>	<b>3 243 050</b>	<b>104 266</b>			

**URANIUM**

**SOUTH AFRICA**

Masimong
Tshepong
Phakisa
<b>Total Underground</b>
Free State Surface Sources

<b>Measured</b>				<b>Indicated</b>				<b>Inferred</b>				<b>Total Mineral Resource</b>			
tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)
-	-	-	-	3 429 696	0.19	658 080	1	1 348 221	0.15	198 501	0	4 777 917	0.18	856 581	2
4 042 667	0.20	821 923	2	13 595 388	0.21	2 890 790	6	11 464 974	0.11	1 222 145	3	29 103 029	0.17	4 934 858	11
7 917 742	0.19	1 536 032	3	7 932 600	0.19	1 511 587	3	26 626 972	0.12	3 098 542	7	42 477 314	0.14	6 146 161	14
11 960 409	0.20	2 357 955	5	24 957 684	0.20	5 060 457	11	39 440 167	0.11	4 519 188	10	76 358 260	0.16	11 937 600	26
-	-	-	-	178 804 808	0.10	17 817 460	39	-	-	-	-	178 804 808	0.10	17 817 460	39
<b>11 960 409</b>	<b>0.20</b>	<b>2 357 955</b>	<b>5</b>	<b>203 762 492</b>	<b>0.11</b>	<b>22 877 917</b>	<b>50</b>	<b>39 440 167</b>	<b>0.11</b>	<b>4 519 188</b>	<b>10</b>	<b>255 163 068</b>	<b>0.12</b>	<b>29 755 060</b>	<b>66</b>

<sup>1</sup> Represent Harmony's equity portion of 50%