

Mineral resources and ore reserves cont.

2009

Evander operations

Geology: The Evander Basin is a tectonically preserved sub-basin outside the main Witwatersrand Basin and forms an asymmetric syncline, plunging to the north-east. It is structurally complex with a series of east-north-east striking normal faults. At the south-east margin of the basin, vertically to locally overturned reef is present. The only economic reef horizon exploited in the Evander Basin is the Kimberley Reef. The Intermediate Reef is generally poorly mineralised, except where it erodes the sub-cropping Kimberley Reef in the south and west of the basin.

Mineral resources

Operations	Measured				Indicated				Inferred				Total			
	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)
Underground																
Evander 2/5	7.7	10.62	81	2 618	2.0	10.47	21	678	6.5	11.36	75	2 386	16.2	10.90	177	5 682
Evander 7	1.9	12.08	23	754	0.1	9.28	1	44	13.9	10.91	151	4 857	15.9	11.04	175	5 655
Evander 8	3.7	11.96	44	1 404	9.2	11.37	105	3 361	14.3	11.79	169	5 424	27.2	11.67	318	10 189
Total	13.3	11.20	148	4 776	11.3	11.18	127	4 083	34.7	11.36	395	12 667	59.3	11.29	670	21 526
Projects – Below Infrastructure																
Evander South	–	–	–	–	21.1	5.46	115	3 696	33.8	3.98	135	4 326	54.9	4.55	250	8 022
Rolspruit	–	–	–	–	29.1	11.59	337	10 847	4.9	5.69	28	902	34.0	10.74	365	11 749
Poplar	–	–	–	–	15.6	10.21	159	5 123	–	–	–	–	15.6	10.21	159	5 123
Total	–	–	–	–	65.8	9.30	611	19 666	38.7	4.19	163	5 228	104.5	7.41	774	24 894
GRAND TOTAL	13.3	11.20	148	4 776	77.1	9.58	738	23 749	73.4	7.58	558	17 895	163.8	8.81	1 444	46 420

Modifying factors

Operations	MCF (%)	SW (cm)	MW (cm)	PRF (%)
Evander 2/5	67	143	190	98
Evander 7	85	159	368	97
Evander 8	70	120	181	97
Evander South	88	100	131	97
Rolspruit	80	110	129	97
Poplar	80	100	116	97

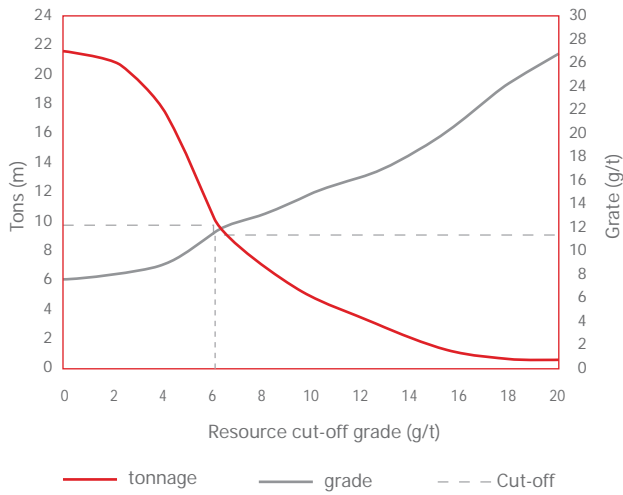
MCF = Mine call factor MW = Milling width SW = Stopping width

PRF = Plant recovery factor

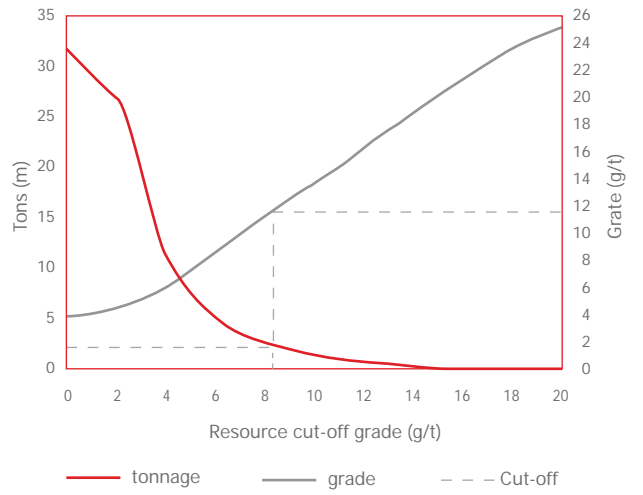
Ore reserves

Operations	Proven				Probable				Total			
	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)	Tonnes (Mt)	g/t	Gold (000kg)	Gold (000oz)
Underground												
Evander 2/5	0.8	6.35	5	163	0.2	6.17	1	38	1.0	6.32	6	201
Evander 7	0.2	4.64	1	27	0.0	8.48	0	2	0.2	4.81	1	29
Evander 8	1.8	5.66	10	332	7.0	6.21	43	1 394	8.8	6.09	53	1 726
Total	2.8	5.79	16	522	7.2	6.21	44	1 434	10.0	6.09	60	1 956
Projects – Below Infrastructure												
Evander South	–	–	–	–	11.5	4.80	55	1 773	11.5	4.80	55	1 773
Rolspruit	–	–	–	–	24.4	8.71	213	6 842	24.4	8.71	213	6 842
Poplar	–	–	–	–	13.5	7.45	101	3 234	13.5	7.45	101	3 234
Total	–	–	–	–	49.4	7.45	369	11 849	49.4	7.45	369	11 849
GRAND TOTAL	2.8	5.79	16	522	56.6	7.30	413	13 283	59.4	7.22	429	13 805

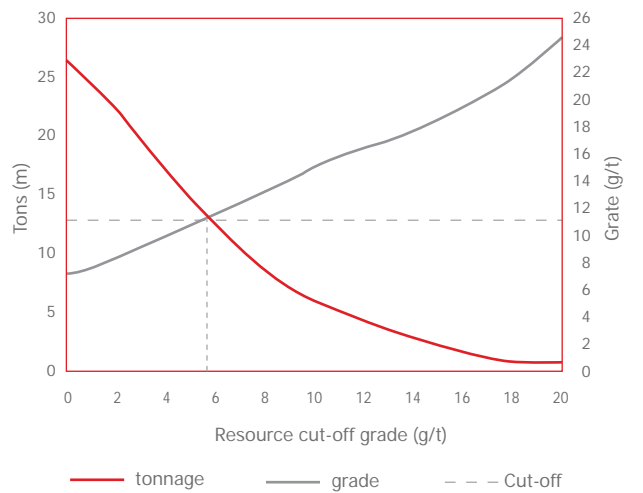
Evander 2 and 5: grade tonnage curve (measured and indicated resources)



Evander 7: grade tonnage curve (measured and indicated resources)



Evander 8: grade tonnage curve (measured and indicated resources)



Legend

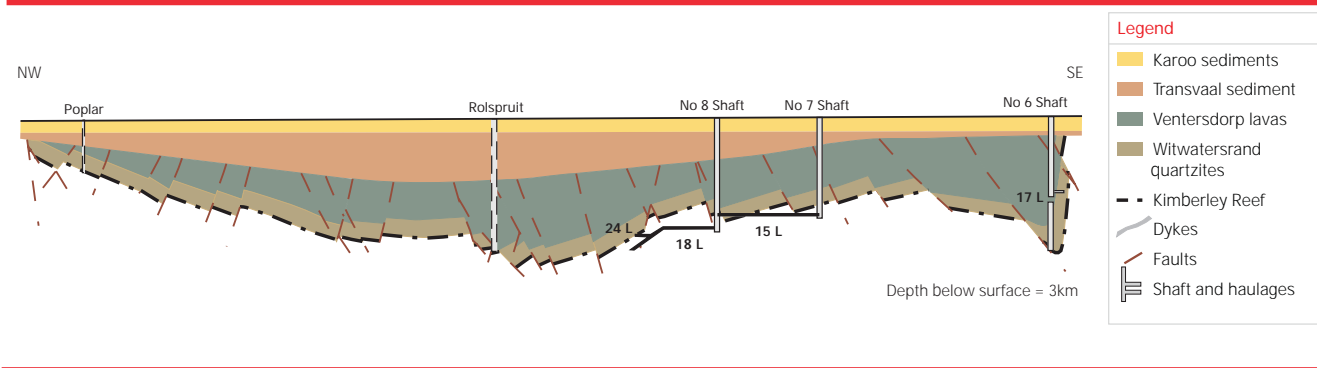
- Harmony Evander
- Location of operations
- Evander Gold Mining Company (Pty) Ltd Taung Gold JV
- Evander South
- Prospecting right
- Shafts
- Excluded area



Mineral resources and ore reserves cont.

2009

Section across Evander Basin
Not to scale



Evander, 2, 5, 6, 8 and 9 Shafts. Poplar and Rolspruit areas
Kimberley Reef

