

9 EXPLORATION

Exploration conducted in the coal business in existing operations consisted of drilling (diamond core and reverse circulation) with surface geophysical surveys, when required, and downhole geophysical logging. Exploration was primarily conducted on mining right areas and new information has been incorporated into updated geological models and included in the mineral resource statement. Drilling was carried out for production purposes and to improve geological confidence to enhance geological modelling and estimation. These drillholes

are depicted in the relevant locality maps in chapter 8 ancillary resource and reserve information by operation. A limited amount of geotechnical and hydrogeological drilling was conducted to improve mine-planning parameters and is included in exploration results (table 11).

No exploration was conducted on areas not included in the mineral resource statement.

Table 11: Summary of exploration expenditure for coal

Project or mining operation	2015 actual		2016 actual				2017 planning*	
	Drillholes Number	Cost (Rm) Total	Drillholes Number	Drilling	Analyses and other	Cost (Rm) Total	Drillholes Number	Cost (Rm) Total
Grootegeeluk coal mine	21	12,3	83**	3,3	7,9	11,2	91**	20,2***
Arnot coal mine	160	10,5	-	-	-	-	-	-
Matla coal mine	180	16	192	12,5	4,7	17,2	120	9,6
NBC coal mine	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	35	2,1
Leeuwpan coal mine	-	-	-	-	-	-	22	4,3
Thabametsi exploration	-	-	-	-	-	-	2	3,1
Dorstfontein coal mines	43	3,8	34	2,5	0,35	2,85	23	3,2
Forzando coal mines	49	5,4	24	2,4	0,5	2,9	27	5,3
Eloff exploration	26	2,1	-	-	-	-	-	-
Total	479	50,1	333	20,7	13,45	34,15	320	47,8
Mining right areas	453	48	333	20,7	13,45	34,15	283	42,6
Prospecting right areas	26	2,1	-	-	-	-	37	5,2

* Non-committed

** Include overburden percussion drilling

*** Include 2016 analysis backlog

