

Gh REPORT NO. 3678

**COAL EXPLORATION BOREHOLES
IN THE NORTHERN SPRINGBOK FLATS**

M. FAYAZI

FEBRUARY 1990

**DIRECTORATE: GEOHYDROLOGY
DEPARTMENT OF WATER AFFAIRS**

ACKNOWLEDGEMENTS

The author wishes to acknowledge the Geological Survey and Gencor for permission granted to collect and present geological information related to coal exploration boreholes (excluding coal measures) drilled in the Northern Springbok Flats.

CONTENTS

	PAGE
INTRODUCTION	1
Coal exploration	1
Geological Survey	1
Gencor (General Mining and Finance Corporation)	2
Other coal exploration companies	2

REFERENCES

LIST OF TABLES

1. COAL EXPLORATION BOREHOLES DRILLED BY GEOLOGICAL SURVEY	
1.1 Geological information of coal exploration boreholes drilled by Geological Survey	1-3
2. COAL EXPLORATION BOREHOLES DRILLED BY GENCOR	
2.1 Geological information of coal exploration boreholes drilled by Gencor	1-26
3. COAL EXPLORATION BOREHOLES DRILLED BY OTHER EXPLORATION COMPANIES	
3.1 Geological information of coal exploration boreholes drilled by other exploration companies	1-9

LIST OF MAPS

- Map 1: (GHP 6908) Coal exploration boreholes (Roedtan-Zebediela area)
- Map 2: (GHP 6909) Coal exploration boreholes (Roedtan-Crecy area)

LIST OF APPENDICES

- Appendix 1: List of missing records of coal exploration boreholes

INTRODUCTION

An extensive borehole data collection survey (hydrocensus) was conducted by the author in the Northern Springbok Flats during 1986 during which hydrogeological information from about 2 500 privately-owned boreholes were collected from the local farmers. The geological formations, or lithological units, penetrated by these boreholes were not known so it was decided that the depths of these boreholes be correlated with geological information provided by coal exploration boreholes which had already been drilled by the Geological Survey and various exploration companies in the Northern Springbok Flats. A summary of geological information (except coal measures) of most coal exploration boreholes drilled in the Northern Springbok Flats were collected by the author during mid-1988 by visiting the Geological Survey (Pretoria) and Gencor (Johannesburg) offices. The geological information of these coal exploration boreholes include depth and thickness of overburden, Letaba basalt, Clarens sandstone, Irrigasie and Eccca Group sediments. Information on intrusives and bedrock were also included. The positions of these boreholes have been plotted on Maps 1 and 2 including these boreholes for which no geological information was available.

Coal exploration

Due to occurrence of the coal seams in the sedimentary formations of the Karoo Sequence, particularly the Eccca Group, a number of coal exploration companies, as well as Geological Survey, undertook a series of exploration drilling programmes over the entire Springbok Flats.

The main objectives of these exploration programmes were to obtain information on the distribution and quality of the coal deposits and to delineate the potential coalfields in the Springbok Flats.

A summary of these coal exploration programmes are given below.

Geological Survey

The earliest coal exploration programme was conducted by the Geological Survey in the Northern Springbok Flats between May 1952 and April 1957, when 27 boreholes were drilled.

The motivation for this investigation resulted from reports of the presence of coal during drilling water boreholes.

Almost all boreholes drilled in the Northern Springbok Flats have penetrated the entire Karoo Sequence and into the bedrock, such as Rooiberg felsite, Loskop shale/quartzite and Bushveld granite.

The farms on which these boreholes have been drilled and related geological information are listed in Tables 1 and 1.1 respectively.

Gencor (General Mining and Finance Corporation)

Gencor conducted a coal exploration drilling programme in the Northern Springbok Flats between 1975 and 1982 (Gencor files) and during this period 414 boreholes were drilled. Collected information related to these boreholes show that most of these boreholes have penetrated only the Ecca Group of the Karoo Sequence, where coal seams occur. The farms on which these boreholes have been drilled are listed in Table 2 and geological information related to 414 boreholes is presented in Table 2.1.

Other coal exploration companies

Other companies which have been involved in the exploration programmes for coal deposits in the Northern Springbok are Anglo American Corporation of South Africa, Goldfields, Messina (Tvl) Development Co. Ltd, and Transvaal Consolidated Land and Exploration Co. Ltd. A total 131 coal exploration boreholes were drilled in the Northern Springbok Flats between 1979 and 1986 and most of the contributions to these exploration drilling programmes were made by Anglo American and Transvaal Consolidated Land and Exploration.

The records of these boreholes show that most of these boreholes have only penetrated the Ecca Group. The farms on which the boreholes have been drilled and related geological information (131 boreholes) are listed in Tables 3 and 3.1 respectively.

REFERENCES

1. Visser H.N., S.W. van der Merwe, 1959.
The Northern Springbok Flats Coalfield, records of boreholes 1 to 27 drilled for the Department of Mines. Bulletin 31, Geological Survey.
2. Nel L. (Gencor), 1988. Personal communication.
3. Prevost G. (Geological Survey), 1988. Personal Communication

RECORDS OF COAL EXPLORATION BOREHOLES DRILLED BY
GEOLOGICAL SURVEY

(TABLES 1 AND 1.1)

Note: All depths and thicknesses are given in m

TABLE 1: COAL EXPLORATION BOREHOLES DRILLED BY GEOLOGICAL SURVEY

Cadastral farm, name & No.		Borehole No.	Remarks
BEKEND	690 KR	22	Southern Springbok Flats
BOUW LUST	660 KS	25	
BYZONDER	621 KR	20	Southern Springbok Flats
CALAIS	563 KS	2	
CERES	548 KR	15	
CHARLOTTE DALE	568 KS	7	
CONTERBERG	665 KS	26	
DOELEN	327 KR	12	Nyl River
DOORNFONTEIN	98 KS	13	
FOLEYS RUST	583 KS	8	
HOOGBULT	608 KS	10	
HULPFONTEIN	549 KS	27	
KALKFONTTEIN	591 KR	17	
KALKPAN	683 KR	21	Southern Springbok Flats
KLIPFONTTEIN	322 KR	14	Nyl River (Andries Spruit)
KLIPPUTGAT	572 KR	18	
LONDON	555 KR	16	
MADRAS	566 KS	9	
ROODE KOP	600 KS	3	
ROOIFONTEIN	589 KS	6	
SCHUIPLAATS	596 KS	5	
SINGAPORE	585 KS	4	
SMALDEEL	618 KR	19	
VANGHEINING	598 KS	1	
WELGEGUND	693 KS	24	
WELTEVREDE	670 KS	23	
ZEBEDIELA ESTATES	101 KS	11	
TOTAL		27	

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigastie		Ecce		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
BEKEND 690 KR	22	24°30'26"	29°08'21"		0 - 4						4 - 94	86	94-195	>54	87-89 92-94 96-99 101-102 109-110 150-154 155-193	2 2 3 1 1 4 38		
BOUW LUST 660 KS	25	24°43'32"	29°11'54"		0 - 4								4-46	42		46-74	Bedrock: Quartzite	
BYZONDER 621 KR	20	24°48'05"	28°53'06"		0 - 14	14	14-21	7	21-117	96	117-238	121	238-284	46		284-289	O/B: Soil/weathered basalt	
CALAIS 563 KS	2	24°31'17"	29°15'54"		0 - 25	25	33-44	11	44-113	69	113-221	108	221-255	34		255-258	Sandstone: 25-33m Bedrock: Bushveld granophyre	
CERES 548 KR	15	24°36'29"	28°58'14"	1009,3	0 - 4	4	4-16	114	116-236	120	236-335	99	335-385	50		385-387	O/B: Soil/Calcrite Bedrock: Loskop shale	
CHARLOTTE DALE 568 KS	7	24°33'14"	29°22'02"		0 - 8	8					8-20	12	20-105	58	50-77	105-106	Bedrock: Bushveld granite	
CONTERBERG 665 KS	26	24°43'14"	29°03'43"		0-20	20					20-85	65	118-148	30	85-118	148-154	O/B: Soil/Calcrite Bedrock: Quartzite (Loskop)	
DOELEN 327 KR	12	24°22'55"	29°00'30"		0-2	3	3-278	275	278-334	56	334-375	>41						
DOORNFONTEIN 98 KS	13	24°21'19"	29°05'52"		0-2		2-194	192	194-288	94	288-344	56	344-348	4		348-349	Bedrock: Quartzite (Timeball Hill)	
FOLEYS RUST 583 KS	8	24°37'33"	29°21'16"		0-6	6							6-66	>20	16-56	40		

TABLE 1.1: Geological information of coal exploration boreholes drilled by Geological Survey

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m. amsl)	Overburden		Basalt		Clarens		Irrigasie		Ecce		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
HOOGBULF. 608 KS	10	24°37'43"	29°05'38"		0-5				5-85	80	85-201	116	201-273	72			273-278	O/B: Soil/Calcrite Bedrock: Shale/ Quartzite (Loskop formation)
HULPFONTEIN 549 KS	27	24°30'40"	29°03'17"		0-5	5	5-368	363	368-459	91	459-566	107	566-659	93			659-668	Bedrock: Ar-gillite (Loskop formation)
KALKFONTEIN 591 KR	17	24°44'27"	28°51'31"		0-5	5			5-108	103	108-195	87	195-256	>61				
KALKPAN 683 KR	21	24°55'29"	28°51'42"		0-4	4			4-89	89	89-233	144	233-291	58			291-292	Bedrock: Rooiberg felsite
KLIPFONTEIN 322 KR	14	24°23'45"	28°50'53"		0-3	3	3-89	86	89-138	49	138-223	85	223-224	1			224-230	Bedrock: Granite
KLIFFUTGAT 572 KR	18	24°40'30"	28°44'45"		0-6	6	6-48	42	48-127	79	127-216	89	216-241	25			241-242	Bedrock: Quartzite (Loskop)
LONDON 555 KR	16	24°35'52"	28°48'57"		0-4	4	16-24	8	24-144	120	144-153	9					153-172	Bedrock: Rooiberg felsite
MADRAS 566 KS	9	24°30'49"	29°21'20"		0-3						3-92	89	92-173	>63	140-158	18		
ROODE KOP 600 KS	3	24°38'42"	29°11'56"		0-14	14					14-44	28	44-195	>94	42-44	2		O/B: Soil/Calcrite
ROOIFONTEIN 589 KS	6	24°37'05"	29°17'29"		0-8	8					8-25	17	25-129	64	85-126	40	129-132	Bedrock: Granite
SCHUIPLAATS 596 KS	5	24°37'58"	29°14'50"		0-1	1					1-94	93	94-98	>4				

TABLE 1.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
SINGAPORE 585 KS	4	24°33'40"	29°19'04"		0-6	6					6-128	122	122-194	>59	174-185 188-189 193-194	11 1 1		
SMALDEEL 618 KR	19	24°47'06"	28°47'17"		0-8	8					8-68						68-75	Bedrock: Quartzite (Loskop)
VANGHEINING 598 KS	1	24°34'39"	29°11'09"		0-3	3			3-104	96	104-236	137	236-356	90	78-79 99-103 155-160 293-323	1 4 5 30	356-372	Bedrock: Quartzite (356-371m)/Felsite (371-372m)
WELGEGOND 693 KS	24	24°49'26"	29°06'36"		0-24	24												O/B: Calcrete/Weathered rock Dowyka Formation: 24-41 m
WELTEVREDE 670 KS	23	24°49'33"	29°02'25"		0-4	4					4-52	48	52-123	>71				O/B: Calcrete (1-4 m)
ZEBEDIELA ESTATES 101 KS	11	24°19'22"	29°17'36"		0-8	8	8-46	27	46-104	58	104-128	2	128-155	27			155-171	Pyroclasts/Sandstone: 24-35m Bedrock: Quartzite/shale (Transvaal Sequence)

TABLE 1.1 (Continued)

Note: All depths and thicknesses are given in m

(TABLES 2 AND 2.1)

RECORDS OF COAL EXPLORATION BOREHOLES DRILLED BY
GENCOR (GENERAL MINING AND FINANCE CORPORATION)

TABLE 2 : COAL EXPLORATION BOREHOLES DRILLED BY GENCOR

Borehole No.	Cadastral farm, name & no.	Borehole no.	Cadastral farm, name & no.	TOTAL
KP555/1-16	KLIPPAN	AF626/1-5	ALEXANDERFONTEIN	626 KS
KP577/1-2	KLIPPLAATS	BP569/1-5	BEESTPOORT	569 KR
KP601/1-6	KRANSKOP	B147/1	BEKEND	147 KS
MA566/1-8	MADRAS	BV590/1	BELLEVEU	590 KS
MG154/1-2	MALGAS	BE580/1	BELVEDERE	580 KS
MF602/1	MAROELESFONTEIN	BF570/1-5	BLINDEFONTEIN	570 KR
MK143/1-3	MERRIE KUIL	BW331/1	BLINKWATER	331 KR
MW559/1-3	MERWEDE	BN592/1	BLINKWATER	592 KR
MI604/1-3	MIDDELPLAATS	BL599/1-2	BOKPOORTLAAGTE	599 KS
MN628/1-5	MINERVA	B0660/1-2	BOUW LUST	660 KS
MF584/1	MOKKAFONTEIN	BK152/1	BRAKFONTEIN	152 KS
MO140/1	MOOIGELEGEN	BY607/1-9	BYZONDERHEID	607 KS
M586/1-12	MOOIGELEGEN	C548/1	CADES	548 KS
MP558/1-3	MOOIHOESPOORT	CE548/1-3	CERES	548 KR
MZ560/1-11	MORGENZON	DW900/1-3	CONTERBERG	665 KS
OF664/1	ORANJEFONTEIN	DN139/1	DANSPAN	139 KS
PL614/1-19	PLATLAAGTE	DP582/1-12	DE BULTS PUNT	582 KR
RB150/1	REMBRANDT	DE617/1-8	DE HOOP	617 KS
RE588/1	RESTAURANT	DT552/1	DELT	552 KS
RB624/1-4	RONDEBERG	DF98/1	DOORNFONTEIN	98 KS
RD558/1-9	ROODEVLAKTE	D669/1-13	DOORNFONTEIN	669 KS
RV120/1	ROOIBOKVLAKTE	DL619/1-17	DOORNLAAGTE	619 KS
RF589/1	ROOIFONTEIN	D694/1-4	DOORN PAN	694 KS
RP615/1-20	RUIMTEPLAATS	EZ148/1	EENZAAM	148 KS
SF620/1-5	SCHIEFFONTEIN	GL547/1	GELUKSFONTEIN	547 KR
ZL123/1-19	SEBTHIELASLOKASIE	GM562/1	GEMENSCHT	562 KS
S585/1	SINGAPORE	GG575/1-2	GOEDGEDACHT	575 KR
SP625/1	SMALLEPAD	GR161/1	GRASPLAATS	161 KS
SB554/1-4	SPRINGBOKBULT	GP588/1	GRASPLAATS	588 KR
SH546/1	SPRINGHAANSLAAGTE	GV587/1	GROENVALLEY	587 KR
UK620/1	UITKOMST	GH99/1	GROOTHOEK	99 KS
UZ156/1	UITZICHT	GP661/1	GROOTE POST	661 KS
UP553/1-25	UITZICHTSPUNT	HA593/1-2	HANGLIP	593 KS
VK605/1-6	VARKENSKUIL	HR621/1-15	HENDRIKSRUST	621 KS
VE622/1A	VERLOREN	HB608/1-26	HOOGBULT	608 KS
VW540/1	VERWEG	H155/1	HOOGTE	155 KS
VS606/1-12	VOLSPRUIT	HF549/1	HULPFONTEIN	549 KS
VD559/1-7	VOORDEEL	KA591/1	KALKFONTEIN	591 KR
VG601/1-3	VRISCHGEWAAGD	KK600/1	KALKPAN	600 KR
VL594/1	VUURSTEEMLAAGTE	KS57/1	KEEROM	557 KS
WG693/1	WELGEGOND	KV616/1-14	KIAERVALLEY	616 KS
W670/1-17	WELTEVERDE	KL587/1	KLIPFONTEIN	587 KS
ZK162/1	ZAMKOMST	KG618/1-14	KLIPGAT	618 KS

Cadastral Farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigaste		Ecce		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
ALEXANDERFON- TEIN 626 KS	AF626/1	24°40'36"	29°06'37"																
	/2	24°40'05"	29°08'00"		0-6	6						0-77	77	77-98	>21				
	/3	24°41'32"	29°07'01"									6-88	82	88-103	>15				
	/4	24°41'04"	29°06'50"		0-3	3						0-59	59	59-109	>2	61-109	48		
	/5	24°40'33"	29°07'23"									3-57	54	57-175	117	112-113	1		Tillite/Shale: 175 - 214 m (Dwyka forma- tion)
BEESTPOORT 569 KR	BP569/1	24°44'47"	28°38'15"		0-10	10						0-73	73	73-88	>15				
	/2	24°44'01"	28°39'06"		0-21	21						10-55	45	55-79	24				
	/3	24°45'04"	28°38'20"		0-3	3						21-42	21	42-50	8				
	/4	24°44'47"	28°38'29"		0-8	8						3-51	48	51-69	18				
	/5	24°45'06"	28°38'40"		0-3	3						8-46	38	46-57	11				
BEKEND 147 KS	B147/1	24°30'30"	29°08'21"				0-280	280		280-397	111	391-469	78	469-478	>9				
BELLEVEU 590 KS	BV590/1	24°37'18"	29°15'23"		0-22	22						22-102	80	102-147	45				
BELVEDERE 580 KS	BE580/1	24°35'14"	29°21'30"		0-11	11													
												11-80	55	31-45	14				
																	80-85		Bedrock: Fel- site Uncertain: 11 - 80 m

TABLE 2.1: Geological information of coal exploration boreholes drilled by Gencor

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks		
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			Depth	Thick
BLINDEFONTEIN 570 KR	BF570/1	24°43'24"	28°42'14"		0-5	5			5-41	36	41-134	130	134-143	9			143-146	O/B: Sand Bedrock: Quartzite		
		/2	24°43'13"	28°44'03"					0-47	47	41-154	107	154-162	>8				54-58	Bedrock: Fel-site	
		/3	24°43'28"	28°39'57"	1097,6							0-48	48	48-54	6				54-58	Bedrock: Fel-site
		/4	24°41'34"	28°42'48"	1113,9					0-33	33	33-101	68					101-106	Bedrock: Conglomerate (Dwyka)	
		/5	?	?		0-4	4			4-60	56	60-168	108	168-173	5			173-175	O/B: Sandy soil Bedrock: Conglomerate (Dwyka) Missing: Position	
BLINKWATER 331 KR	BW331/1	24°25'45"	29°01'13"	1060,0	0-6	6	6-549	543	549-708	125	708-773	65	773-783	>10	554-588	34				
BLINKWATER 592 KR	BW592/1	24°44'15"	28°48'19"				0-8	8	8-123	115	123-194	71	194-200	6			200-209	Bedrock: Quartzite		
BOKPOORTLAAGTE 599 KS	BL599/1	24°35'26"	29°11'03"		0-3	3	3-9	6	9-109	100	109-236	127	236-255	>13	245-251	6				
		/2	24°36'52"	29°10'30"					0-40	40	40-186	146	186-216	>14	197-213	16				
BOUW LUST 660 KS	BO660/1	24°42'41"	29°11'53"		0-20	20							20-48	28			48-49	O/B: Calcrete Bedrock: Granite		
		/2	24°44'37"	29°10'15"		0-3	3							3-30	27			43-63	Breccia/conglomerate: 30-43 m Bedrock: Quartzite	
BRAKFONTEIN 152 KS	BK152/1	24°28'05"	29°13'08"																Missing: Information	

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigatie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
BYZONDERHEID 607 KS <i>2500CP 2511 5116 5119</i>	BY607/1	24°35'32"	29°06'12"	0-9	9	9-54	45	54-147	93	147-260	113					260-269	O/B: Turf soil Bedrock: Quartzite
	/2	24°35'21"	29°04'44"	0-3	3	3-115	112	115-215	100	215-340	125	340-348	>8				
	/3	24°35'40"	29°05'32"			0-66	66	66-156	90	156-280	124	280-286	>6				
	/4	24°35'40"	29°05'02"			0-123	123	123-186	63	186-316	132	316-320	>4				
	/5	24°36'23"	29°05'11"			0-79	79	79-181	102	181-307	126	307-321	>14				
	/6	24°35'53"	29°05'47"	0-3		3-60	57	60-152	92	152-262	110	262-272	10			272-273	Bedrock: Granite
CADES 548 KS	/7	24°36'06"	29°05'19"			0-85	85	85-169	84	169-299	130	299-310	>11				
	/8	24°35'08"	29°04'18"			0-142	142	142-234	92	234-357	123	357-367	>10				
	/9	24°35'27"	29°04'28"	0-9		9-129	120	129-225	96	225-343	118	343-359	>16				
CERES 548 KR	C548/1	24°33'22"	29°04'22"	0-6	6	15-190	175	190-276	86	276-385	109	285-398	>13				
	CE548/1	24°37'47"	28°56'46"	0-3	3	3-78	75	78-195	117	195-305	110	305-309	>4				
	/2	24°37'14"	28°58'16"	0-6	6	6-108	102	108-224	116	224-325	101	325-329	>4				
CONTERBERG 665 KS (DWARSE- WEG 900 KS)	/3	24°36'49"	28°58'55"	0-3	3	3-102	99	102-235	133	235-327	92	327-333	>6				
	DW900/1	24°46'23"	29°02'08"	0-22	22							22-120	57	77-118	41	120-121	Bedrock: Quartzite Uncertain: 22 - 120 m
	2	24°46'30"	29°00'59"	0-5	5							48-141	57	101-111 113-139	10 26	141-143	Bedrock: Quartzite Uncertain: 5-48m; 48-141m
DAMSPAN 139 KS	3	24°46'12"	29°00'47"	0-7	7							59-86	>27	44-48			
	DN139/1	24°26'55"	29°05'07"	0-9	9	9-585	551	585-683	98	683-744	61	744-759	>15				Sandstone/mud- stone/shale: 518-543m (25m)

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigatie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
DE BULTS PUNT 582 KR	DP582/1	24°40'20"	28°58'18"		0-5	5			5-74	69	74-195	121	195-274	79			274-275	Bedrock: Quartzite
	/2	24°41'20"	28°58'52"		0-9	9			9-42	33	42-144	102	144-160	>16				
	/3	24°40'00"	28°58'34"		0-8	8			8-76	68	76-193	117	193-211	>18				
	/4	24°40'50"	28°59'56"		0-2	2			2-44	37	44-165	121	165-182	>17	2-7	5		
	/5	24°41'26"	28°59'33"		0-9	9			9-39	30	39-141	102	141-150	>9				
	/6	24°41'53"	28°58'55"		0-8	8			8-23	15	23-102	79	102-114	>12				
	/7	24°41'29"	29°00'15"		0-25	25			25-40	15	40-130	90	130-140	>10				0/B: Soil/calcrete
	/8	24°41'00"	29°00'30"		0-3	3			3-31	28	31-154	123	154-167	>13				
	/9	24°41'44"	28°58'37"		0-5	5			5-18	13	18-130	112	130-134	>4				
	/10	24°40'27"	29°00'25"						0-62	38	62-191	129	191-202	>11	15-39	24		
	/11	24°41'04"	28°59'24"						0-31	31	31-150	119	150-161	>11				
	/12	24°41'43"	28°59'46"		0-13	13					13-113	100	113-122	>9				
DE HOOP 617 KS	DE617/1	24°38'15"	28°59'33"		0-3	3			3-172	94	172-274	102	274-292	>18	51-126	75		
	/2	24°38'03"	29°01'37"	991,4	0-10	10			10-170	145	170-261	91	261-273	>12	78-89	13		
	/3	24°37'10"	28°59'05"				0-90	90	90-232	142	232-311	79	311-318	>7				
	/4	24°37'06"	29°00'53"		0-3	3			3-225	144	225-291	66	291-303	>12	3-30	27		
	/5	24°38'06"	29°00'34"		0-6	6			6-147	83	147-251	104	251-268	>17	67-125	58		0/B: Calcrete
	/6	24°36'50"	28°59'56"		0-3	3	3-48	45	48-239	131	239-306	67	306-317	>11	128-188	60		0/B: Calcrete

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
DE HOOP 617KS (Continued)	/7	24°36'25"	29°00'44"		0-6	6	6-198	110	198-254	56	254-320	66	320-327	>27				Interbedded sandstone: 54-133m (79m), 135-138m (3m)
	/8	28°37'33"	29°00'48"	995,1					0-198	148	198-284	86	284-300	>16	92-142	50		
DELFT 552 KS	DT552/1	24°31'24"	29°00'06"	973,2	0-2		2-268	266	268-370	102	370-453	83	453-462	>9				O/B: Silty soil
DOORNFONTEIN 98 KS	DF98/1	24°21'50"	29°03'30"	1067,7	0-6	6	6-602	596	602-688	86	688-731	43	731-748	17			748-774	Bedrock: Hornfels
DOORNFONTEIN 669 KS	D669/1	24°49'59"	29°01'38"	953,4	0-16	16					16-65	49	65-74	>9				
	/2	24°50'22"	29°00'56"	956,8	0-13	13					13-102	89	102-140	>38				
	/3	24°49'14"	29°01'16"	969,2	0-31	31					31-122	91	122-140	>18				
	/4	24°49'34"	29°00'21"	970,6	0-11	11					11-135	124	135-152	>17				
	/5	24°50'38"	29°01'52"	952,3	0-20	20					20-74	54	74-84	>10				
	/6	24°50'55"	29°00'35"	958,5	0-12	12					12-130	118	130-169	>39				
	/7	24°49'47"	29°01'01"	959,4	0-6	6					6-101	95	101-133	>32				
	/8	24°50'19"	29°02'14"	951,3	0-32	32					32-59	27	59-83	>24				
	/9	24°48'39"	29°00'56"	993,8	0-12	12			12-24	12	24-153	129	153-179	>26				
	/10	24°49'25"	29°59'54"	974,8	0-20	20					20-153	133	153-181	>28				
	/11	24°49'36"	29°02'05"	950,3	0-18	18					18-48	30	48-65	>17				O/B: Calcrete
	/12	24°49'05"	29°00'26"	982,5							0-138	138	138-154	>16				
	/13	24°49'24"	29°01'50"	955,5	0-12	12					12-64	52	64-75	>11				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m. amsl	Overburden		Basalt		Clarens		Irrigatie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
DOORNLAAGTE 619 KS	DL619/1	24°39'39"	29°02'22"		0-6	6					6-198	192	198-285	87			285-287	Bedrock: Quartzite
	/2	24°39'56"	29°03'23"						0-85	41	85-214	129	214-229	>15	14-58	44		
	/3	24°37'34"	29°02'54"		0-5	5			5-175	109	175-277	102	277-289	>12	60-121	61		
	/4	24°38'38"	29°03'21"		0-3	3			3-129	126	129-243	114	243-263	>20				
	/5	24°38'39"	29°02'37"		0-4	4			4-146	139	146-251	105	251-268	>17	4-7	3		
	/6	24°40'13"	29°02'39"	973,6	0-11	11			11-59	48	59-191	132	191-202	>11				
	/7	24°39'17"	29°03'05"		0-16	16			16-108	92	108-239	131	239-250	>11				
	/8	24°39'11"	29°03'46"	987,0	0-3	3			3-105	58	105-234	129	234-248	>14	39-83	44		
	/9	24°38'42"	29°03'06"	974,0	0-3	3			3-132	129	132-227	95	227-239	>12				
	/10	24°39'12"	29°04'09"	980,7	0-15	15			15-90	75	90-215	125	215-234	>12	223-230	7		0/B: Sand
	/11	24°38'14"	29°03'40"	976,2	0-6	6			6-149	143	149-250	101	250-263	>13				0/B: Sand
	/12	24°39'26"	29°04'17"	982,6	0-9	9			9-93	75	93-205	112	205-230	>10	39-48 213-228	9 15		0/B: Sand
	/13	24°38'57"	29°04'01"	977,7	0-3	3	3-38	35	38-125	87	125-226	101	226-245	>19				
	/14	24°38'26"	29°03'46"	972,7	0-6	6			6-146	140	146-237	91	237-251	>14				0/B: Sand
	/15	24°39'12"	29°02'09"	987,5	0-9	9	9-51	42	51-91	40	91-210	119	210-223	>13				0/B: Sand
	/16	24°39'27"	29°02'14"	987,5	0-9	9	9-76	67	76-104	28	104-216	112	216-235	>19				0/B: Sand
	/17	24°37'36"	29°03'21"		0-6	6			6-164	102	164-268	104	268-278	>10	69-125	56		0/B: Sand
DOORN PAN 694 KS	D694/1	24°48'59"	29°05'24"	934,4	0-16	16						16-59	43			62-77	Tillite:59-62m Bedrock: Quartzite (Waterberg)	

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
DOORN PAN 694KS (Continued)	/2	24°49'18"	29°04'21"	939,6	0-23	23							23-73	50			76-79	Tillite:73-76m Bedrock: Fel-site(Bushveld)
	/3	24°49'40"	29°03'07"	946,0	0-44								44-63	>19				O/B: No recovery Uncertain: 44 - 63 m
	/4	24°49'54"	29°02'20"	950,6	0-10	10							10-59	>49				O/B: Soil/calcrete (4 m)
EENZAAM 148 KS	EZ148/1	24°29'08"	29°09'59"	941,4			0-325	318	325-458	133	458-514	56	514-523	>9				Sandstone: 312 - 319 m
GELUKSFON- TEIN 547 KR	GL547/1	24°35'52"	28°59'25"	998,0	0-6	6	6-203	90	203-261	58	261-334	73	334-338	>4				Sandstone: 84-147m (63m), 151-195m (44m)
GEWENSCHT 562 KS	GW562/1	24°32'35"	29°15'33"		0-4	4			4-88	72	88-208	109	208-216	>8	4-16 183-194	12 11		
GOEDGEDACHT 575 KR	GG575/1 /2	24°04'54" 24°42'32"	28°47'07" 28°45'36"		0-4 0-3	4 3	4-19 3-15	15 12	19-106 15-78	87 63	106-191 78-225	85 147	191-198 225-282	>7 >57				Uncertain: 225-282m
GRASPLAATS 161 KS	GR161/1	24°26'53"	29°17'23"		0-9	9	9-170	161	170-262	92	262-312	50	312-316	>4				O/B: Weathered lava/calcrete Uncertain: 312 - 316 m
GRAASPLAATS 588 KR	GP588/1	24°43'08"	28°55'54"						0-52	52	52-109	57	109-128	>19				
GROENVALLEY 587 KR	GV587/1	?	?						0-108	108	108-216	108	216-223	>7				Missing: Position
GROOTHOEK 99 KS	GH99/1	24°20'05"	29°09'44"	1134,7			0-619	619	619-765	92	765-804	39	804-810	>6	636-690	54		Dolerite.dyke: 765,5 - 766 m

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigassie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
GROOTE POST 661 KS	GP661/1	24°42'57"	29°09'18"		0-15	15							15-107	38	28-82	54	107-114	O/B: Calcrete Bedrock: Fel-site
	HA593/1 /2	24°34'56" ?	29°15'52" ?		0-9 0-3	9 3			9-25 3-11	16 8	25-148 11-133	123 122	148-151 133-204	>3 51	150-151 184-204	1 20	204-270	O/B: Calcrete Bedrock: Granite Missing: Position
HENDRIKSRUST 621 KS	HR621/1	24°40'44"	29°02'41"		0-3	3			3-46	23	46-174	128	174-197	>23	3-23	20		
	/2	24°41'12"	29°01'49"		0-3	3			3-23	20	23-141	118	141-207	66			213-220	Tillite: 207 - 213 m Bedrock: Quartzite
	/3	24°42'19"	29°01'46"		0-18	18					18-91	64	91-113	>22	18-27	9		
	/4	24°41'45"	29°03'05"		0-16	16					16-120	104	120-143	>23				
	/5	24°41'55"	29°01'08"	960,6	0-25	25					25-101	76	101-112	>11				O/B: Calcrete (12 - 25 m)
	/6	24°41'02"	29°02'20"	962,1	0-13	13			13-33	20	33-157	124	157-179	>22				
	/7	24°42'16"	29°01'17"	957,6	0-24	24					24-86	62	86-104	>18				O/B: Calcrete/ unconsolidated overburden
	/8	24°41'44"	29°01'49"		0-7	7			7-32	25	32-114	82	32-131	>99				
	/9	24°41'28"	29°01'43"						0-51	51	51-122	71	122-140	>18				
	/10	24°42'51"	29°01'40"		0-19	19					19-67	48	67-80	>13				O/B: Soil/cal- crete
	/11	24°41'00"	29°02'46"	960,2	0-1	1			1-32	29	32-166	134	166-177	>11	1-3	2		
	/12	24°41'50"	29°01'31"	957,7							0-112	112	122-120	>8				
	/13	24°40'49"	29°02'09"	962,5					0-30	30	30-174	144	174-189	>15				
	/14	24°42'55"	29°02'00"	958,7					0-40	40	40-62	22	62-75	>13				
	/15	24°42'34"	29°01'26"	958,8							0-86	86	86-96	>10				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigassie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
HOOGBULT 608 KS	HB608/1	24°36'36"	29°04'57"	968,90	0-2	2	2-83	81	83-189	106	189-307	118	307-324	>17				
	/2	24°37'32"	29°05'32"	962,7	0-6	6			6-100	94	100-223	123	223-233	>10				
	/3	24°36'40"	29°06'41"		0-3	3	3-7	4	7-110	103	110-234	124	234-247	>13				
	/4	24°37'28"	29°07'04"	959,47	0-3	3			3-85	82	85-227	142	227-242	>15				
	/5	24°37'16"	29°06'17"						0-136	136	136-221	85	221-226	>5				
	/6	24°37'01"	29°05'12"	965,1	0-6	6	6-23	17	23-106	83	106-222	120	222-229	>7				
	/7	24°37'56"	29°06'03"		0-6	6			6-80	74	80-212	132	212-221	>9				
	/8	24°36'19"	29°05'32"	963,1	0-3	3	3-118	115	118-192	74	192-291	99	291-300	>9				
	/9	24°36'57"	29°07'15"	950,8	0-3	3	3-58	55	58-108	50	108-239	131	239-251	>12				
	/10	24°36'42"	29°07'06"	951,2	0-10	10			10-120	110	120-236	116	236-301	65				301-302 O/B: Calcrete/ turf soil Bedrock: Quartzite
	/11	24°36'28"	29°06'58"	953,2			0-6	6	6-150	144	150-243	93	243-249	>6				
	/12	24°36'14"	29°06'51"	955,2			0-12	12	12-118	106	118-245	127	245-254	>9				
	/13	24°35'58"	29°06'41"	957,6			0-20	20	20-171	151	171-292	121	292-299	>7				
	/14	24°37'43"	29°06'24"						0-90	90	90-222	132	222-236	>14				
	/15	24°36'47"	29°06'11"	959,2					0-69	69	69-196	127	196-204	8				204-205 Bedrock: Fel- Site
	/16	24°37'26"	29°07'25"	953,4					0-99	99	99-223	124	223-233	>10				
	/17	24°37'35"	29°06'03"	960,2					0-90	90	90-220	130	220-232	>12				
	/18	24°37'33"	29°06'22"	961,3					0-98	98	98-227	129	227-232	>5				
	/19	24°36'20"	29°05'47"	961,0			0-50	50	50-147	97	147-279	132	279-287	>8				
	/20	24°36'07"	29°06'22"															

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
HOOGBULT 608KS (Continued)	/21	24°36'39"	29°05'40"			0-12	12	12-114	102	114-237	123	237-245	>8				
	/22	24°36'43"	29°05'17"			0-24	24	24-114	90	114-248	134	248-260	>12				
	/23	24°37'09"	29°05'43"					0-58	58	58-219	161	219-225	>6				
	/24	24°37'24"	29°05'58"					0-76	76	76-224	148	224-237	>13				
	/25	24°36'40"	29°06'20"					0-74	74	74-205	131	205-212	>7				
	/26	24°37'10"	29°06'51"					0-105	105	105-228	123	228-243	>15				
HOOGTE 155 KS	H155/1	24°28'52"	29°15'18"	0-10	10	10-127	117	127-229	102	229-320	91	320-329	>9				O/B: Calcrete (2 - 10 m)
HULPFONTEIN 549 KS	HF549/1	24°31'35"	29°03'16"	0-3	3	3-322	319	322-401	79	401-510	109	510-520	>10				
KALKFONTEIN 591 KR	KA591/1	24°42'38"	28°51'00"	0-12	12			12-123	111	123-203	80	203-215	>12				O/B: Calcrete/ weathered lava
KALKPAN 600 KR	KK600/1	24°47'05"	28°37'26"	0-3	3			3-21	18								Bedrock: Quartzite Bedrock: Fe1- site
KEEROM 557 KR	KO557/1	24°30'43"	29°10'45"	0-13	13	13-201	188	201-356	155	356-403	47	403-410	>7				O/B: Calcrete (4 - 13 m)
KLAVERVALLEY 616 KS	KV616/1	24°37'13"	29°02'10"	0-6	6			6-178	116	178-282	104	282-290	>8	90-146	56		
KLIPFONTEIN 587 KS	KL587/1	24°35'15"	29°18'51"	0-15	15					15-73	58	73-81	>8				
KLIPGAT 618 KS	KG618/1	24°38'45"	29°01'29"	0-3	3			3-131	79	131-237	106	237-262	>25	38-87	49		
	/2	24°40'15"	29°01'11"	0-2	2			2-71	26	71-197	126	197-218	>21	2-45	43		
	/3	24°39'10"	29°00'24"	0-6	6			6-92	63					52-75	23		
	/4	24°40'25"	29°01'49"	0-3	3			3-53	19	53-175	122	175-197	>22	3-34	31		
	/5	24°39'31"	29°01'45"					0-115	115	115-205	90	205-221	>16				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasic		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
KLIPGAT 618KS (Continued)	/6	24°40'43"	29°01'06"	918,2					33-57	24	57-181	124	181-198	>17	0-33	33			
	/7	24°41'27"	29°01'53"	-					0-37	37	37-129	92	129-146	>17					
	/8	24°40'57"	29°01'17"	971,21	0-3	3			3-38	35	38-159	121	159-174	>15					
	/9	24°41'10"	29°01'15"		0-17	17			17-26	9	26-147	121	147-155	> 8					
	/10	24°39'55"	29°02'16"						40-66	26	66-194	128	194-207	>13	0-40	40		Weathered dolerite: 0-11m	
	/11	24°40'47"	29°01'36"	970,7					18-45	27	45-175	130	175-185	>10	0-18	18			
	/12	24°40'25"	29°02'01"	967,6					17-43	26	43-173	130	173-188	>15	0-17	17			
	/13	24°40'16"	29°01'45"	972,1	0-13	13			27-52	25	52-183	131	183-195	>12	13-27	14			
	/14	24°40'06"	29°00'22"	1004,9	0-9	9			9-90	34	90-211	121	211-228	>17	16-63	47			
	KLIPPAN 555 KS	KP555/1	24°33'57"	29°08'20"														Missing: Information	
	/2	24°34'10"	29°09'02"	948,0	0-66	66			66-156	90	156-278	122	278-359	>51	325-355	30			
	/3	24°33'50"	29°08'49"	949,7	0-77	77			77-158	81	158-280	122	280-337	>34	314-337	23			
	/4	24°33'17"	29°09'05"	946,6	0-93	93			93-192	99	192-302	109	302-350	>20	270-271 322-350	1 28			
	/5	24°32'49"	29°09'30"	942,1	0-104	104			104-216	112	216-314	77	314-402	>50	218-239 361-399	21 38			
/6	24°33'38"	29°09'30"	943,5	0-60	60			60-155	95	155-286	131	286-360	>38	323-359	36				
/7	24°33'27"	29°08'34"	950,7	0-90	90			90-180	90	180-311	113	311-326	15	225-234 263-269 270-273	9 6 3		Bedrock: Fel-site 326-335		
/8	24°33'57"	29°08'33"	951,1	0-78	78			78-156	78	156-284	128	284-339	32	316-339	23		Tillite: 339 - 350 m		
/9	? ?	?															Missing: Position & information		
/10	? ?	?															Missing: Position & information		

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
KLIPPAN 555KS (Continued)	/11	?	?															Missing: Position & in-formation
	/12	24°33'43"	29°09'13"	946,6			0-68	68	68-167	99	167-286	119	286-302	>16				
	/13	24°33'57"	29°09'32"	944,2			0-70	70	70-163	93	163-278	115	278-375	61	283-284	1	375-379	Bedrock: Fel-site
	/14	?	?															Missing: Position & in-formation
	/15	?	?															Missing: Position & in-formation
KLIPPLAATS 577 KR	/16	24°34'03"	29°08'18"	952,5			0-70	70	70-164	94	164-285	121	285-295	>10				
	KP577/1	24°40'40"	28°50'10"	1028,2	0-6	6	6-27	21	27-111	84	111-190	79					190-204	Bedrock: Argillite with quartzite bands (Loskop formation) Uncertain: 111 - 190 m Bedrock: Quartzite
KRANSKOP 610 KS	/2	24°41'16"	28°48'44"		0-6	6	6-36	30	36-99	63	99-201	102	201-228	27			228-234	
	KP610/1	24°41'31"	29°04'58"		0-3	3					3-56	106	57-162	106	67-69	2	171-172	Tillite: 162 - 171 m Bedrock: Fel-site
	/2	24°40'57"	29°04'47"	940,1	0-3	3					3-92	89	92-105	>13				
	/3	24°40'27"	29°04'38"	966,9	0-3	3			3-39	36	39-144	105	144-152	>8				
	/4	24°39'57"	29°04'29"	976,6	0-2	2			2-36	8	36-172	135	172-274	91	2-28	26	288-292	Tillite: 274 - 288 m Bedrock: Quartzite
	/5	?	?															Missing: Position & in-formation
/6	24°40'42"	29°04'43"	959,7	0-3	3			3-18	16	18-118	100	118-229	67	158-165	7		Tillite/shale: 229 - 261 m	

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks			
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick					
MADRAS 566 KS	MA566/1	24°32'40"	29°21'45"		0-3	3					3-42	39	42-134	92			134-135	Bedrock: Granite			
	/2	24°32'01"	29°20'50"		0-18	18					18-87	69	87-213	106	141-161	20	213-214	Bedrock: Granite O/B: Calcrete			
	/3	24°32'31"	29°22'05"		0-1	1					1-29	28	29-50	>21				O/B: Calcrete			
	/4	24°32'25"	29°22'05"		0-4	4					4-25	21	25-50	>25				O/B: Calcrete			
	/5	24°32'32"	29°22'03"		0-2	2					2-30	28	30-50	>20				O/B: Calcrete			
	/6	24°32'33"	29°22'01"		0-2	2					2-28	26	28-54	>26				O/B: Calcrete			
	/7	24°32'33"	29°22'07"		0-4	4					4-33	29	33-53	>20				O/B: Calcrete (0 - 2 m)			
	/8	24°32'30"	29°22'07"		0-1	1					1-33	32	33-50	>17				O/B: Calcrete			
MALGAS 154 KS	MG154/1	24°29'28"	29°12'18"		0-9	9	9-266	257	266-371	95	371-473	102	473-490	>17	297-307	10		O/B: Overburden/calcrete			
	/2	24°30'17"	29°12'45"		0-21	21	21-183	162	183-307	124	307-403	96	403-433	>30				O/B: Red soil Dolerite dyke: 386,9-387,2 m			
MAROELASFON- TEIN 602 KR	MF602/1	24°48'33"	28°38'35"		0-4	4			4-29	25	29-138	109	138-144	6			144-158	Bedrock: Quartzite			
	MK143/1	24°28'10"	29°03'17"	1007,9	0-4	4	4-471	467	471-597	126	597-659	62	659-676	>16							
	/2	24°29'24"	29°06'15"	972,5	0-6	6	6-389	383	389-471	82	471-566	95	566-577	>11							
MERRIE KUIL 143 KS	/3	24°29'17"	29°04'00"		0-6	6	6-408	402	408-510	102	510-595	85	595-609	>14							
	MW559/1	24°31'18"	29°11'09"		0-9	9	9-167	158	167-331	162	331-371	40	371-380	>9	192-194	2					
	/2	24°30'48"	29°11'27"				0-200	200	200-355	155	355-396	41	396-402	>6							
MERWEDE 559 KS	/3	24°29'50"	29°11'23"				0-310	255	310-383	73	383-471	88	471-479	>8	243-251	8	258-264	6	297-308	11	30 m of sandstone interbedded in lava 265 - 295 m

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick				
MIDDELPLAATS 604 KR	MI604/1	24°49'16"	28°36'08"	1119,6	0-8	8	8-537	529	537-661	124	661-752	91						752-764	Bedrock: Quartzite, fault contact at 752 m Uncertain: 661-752 m
	/2	24°50'39"	28°35'40"				0-392	392	392-507	115	507-625	118	626-630	5				630-635	
	/3	24°50'53"	28°35'50"	1098,2			0-381	381	381-496	115	496-617	121	617-627	>10					
MINERVA 628 KS	MN628/1	24°49'39"	29°09'15"		0-8	8					8-86	78	86-104	>18					
	/2	24°41'13"	29°08'58"		0-7	7					7-39	32	39-188	94	118-173	55			Tillite: 188 - 197 m
	/3	24°40'25"	29°10'51"	920,5	0-18	18					18-21	3	21-74	>46	42-43 48-50 54-66	1 2 4			
	/4	24°40'41"	29°08'50"								20-104	84	84-115	>31					Missing: In-formation
MOKKAFONTEIN 584 KS	MF584/1	24°33'19"	29°20'09"	912,1	0-2	2					2-144	142	144-252	76	193-206 212-231	13 19		252-280	Bedrock: Granite
	M0140/1	24°29'44"	29°00'43"	1028,5	0-6	6	6-366	360	366-457	91	457-551	94	551-563	>12					
MOOIGELEGEN 586 KR	M586/1	24°46'07"	29°00'40"	980,1	0-20	20					20-63	43	63-95	>32					
	/2	24°46'20"	29°00'02"	989,6	0-13	13					13-85	72	85-93	>8					
	/2A	24°46'20"	29°00'02"	989,6	0-8	8					8-85	77	77-165	83	103-135	5		165-166	Bedrock: Quartzite
	/3	24°46'27"	28°59'43"		0-6	6					6-109	103	109-126	>17					
/4	24°46'12"	29°00'20"		0-12	12					12-75	63	75-95	>13	78-85	7				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
MOOIGELEGEN 586KR (Continued)	/5	24°46'16"	28°59'36"		0-8	8					8-88	80	88-102	>13	94-95	1			
	/6	24°46'03"	28°59'15"		0-6	6					6-118	112	118-137	>19					
	/7	24°46'29"	28°59'24"		0-4	4			4-66	62	66-165	99	165-187	>22					
	/8	24°46'41"	28°58'16"		0-5	5			5-119	114	119-222	103	222-237	>5					
	/9	24°46'13"	28°58'01"		0-16	16			16-123	107	123-209	86	209-223	>14					
	/10	24°45'56"	29°00'34"		0-2	2					2-79	77	79-99	>20					
	/11	24°45'54"	28°59'57"		0-3	3					3-91	88	91-105	>5	93-102	9			
	/12	24°46'26"	28°58'56"		0-4	4			4-76	72	79-189	113	189-203	>14					
	MOOIHOESPOORT 558 KR	MP558/1	24°37'45"	28°47'22"							0-71	71	71-80					80-132	Bedrock: Silt- ified mud- stone/felsite (80-102m), Felsite: 102 -132 m)
		/2	24°39'20"	28°46'34"				0-30	30	30-141	111	141-197	56	197-206					Conglomerate/ sandstone/ siltstone: 206 -217 m
		/3	24°38'44"	28°46'35"		0-2	2			2-57	55	57-84	27					84-138	Bedrock: Quartzite Uncertain: 57 - 84 m
	MORGENZON 560 KR	MZ560/1	24°33'09"	29°11'58"		0-8	8		8-67	59	67-196	129	196-252	>5	257-289	>5	257-289	32	0/B: Overbur- den/calcrete
/2		24°31'32"	29°11'54"		0-12	12		12-135	123	135-276	134	276-349	>20	349-369	>20	233-240	7		
/3		24°32'08"	29°11'34"					0-76	76	76-217	139	217-282	65	282-346	32	188-189 215-216 288-320	1 1 32	Bedrock: Fel- site	

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigassie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
MORGENZON 560KR (Continued)	/4	24°32'41"	29°11'47"			0-51	51	51-188	183	188-256	68	256-300	>38	261-263 271-273 280-286	2 2 6			
	/5	24°32'20"	29°12'57"			0-72	72	72-204	132	204-280	76	280-294	>14					
	/6	24°31'05"	29°13'07"			0-127	127	127-259	132	259-312	53	312-327	>15					
	/7	24°33'11"	29°13'56"	0-3	3	3-20	17	20-132	112	132-201	69	201-216	>15					
	/8	24°31'45"	29°13'22"	0-18	18	18-82	64	82-209	127	209-290	81	290-305	>15					
	/9	24°33'46"	29°12'12"	0-18	18			18-142	124	142-273	87	273-281	>8	187-188 198-241	1 43			
	/10	24°32'06"	29°12'02"			0-65	65	65-96	31	96-281	185	281-289	>8					
	/11	24°31'57"	29°12'38"	0-18	18	18-72	54	72-227	155	227-292	65	292-309	>17					
	OF664/1	24°45'30"	29°05'24"	0-2	2							2-77	75				77-87 Bedrock: Quartzite	
	PLATLAAGTE 614 KS	PL614/1	24°38'30"	29°06'00"	0-4	4			4-40	36	40-179	120	179-283	79	97-104 161-172 178-179 187-212	7 11 1 25	283-291	Bedrock: Fel- site & quart- zite O/B: Calcrete
		/2	24°37'06"	29°03'50"	0-9	9	9-27	18	27-159	126	159-278	119	278-295	>17	78-84	6		
/3		24°37'54"	29°04'39"	0-9	9			9-100	91	100-236	133	236-248	>12	188-191	3			
/4		24°38'35"	29°04'23"	0-3	3			3-93	90	93-222	125	222-239	>17	202-205 211-212	3 1			
/5		24°37'40"	29°05'09"	0-10	10			10-103	92	103-229	126	229-234	>5	45-46	1			
/6		24°38'25"	29°05'00"					0-73	73	73-200	127	200-215	>15					
/7		24°36'50"	29°04'18"	0-3	3	3-60	57	60-180	80	140-268	128	268-281	>13					
/8		24°37'22"	29°04'25"	0-3	3			3-143	140	143-261	118	261-272	>11					

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
PLATLAAGTE 614KS (Continued)	/9	24°37'10"	29°04'55"	0-12	12	12-48	36	48-120	72	120-233	113	233-242	>9					
	/10	24°38'29"	29°05'26"					0-55	55	55-182	127	182-221	>14	192-217	25			
	/11	24°38'04"	29°04'18"					0-124	112	124-244	120	244-259	>15	0-12	12			
	/12	24°37'35"	29°04'01"					0-152	97	152-255	103	255-277	>22	64-119	55			
	/13	24°37'03"	29°04'37"					0-123	87	123-260	137	260-277	>17	38-76	36			
	/14	24°37'23"	29°03'33"	0-3	3			3-148	95	148-271	123	271-284	>13	78-128	50			
	/15	24°37'18"	29°04'04"	0-3	3			3-151	93	151-271	120	271-283	>12	63-118	55			
	/16	24°38'53"	29°04'44"	0-13	13			13-69	56	69-198	118	198-222	>15	155-166	11			
														208-217	9			
	/17	24°39'18"	29°05'05"					0-79	79	79-213	134	213-228	>15					
	/18	24°37'17"	29°05'11"					0-80	80	80-222	142	222-234	>12					
	/19	24°37'29"	29°04'46"			0-42	42	42-118	76	118-239	121	239-253	>14					
	REMBERANDT 150 KS	RB150/1	?	?	0-3	3	3-347	320	347-354	7	354-499	145	499-512	>13				24 m of sandstone: interbedded in basalt at: 198 - 199 m 303 - 305 m 309 - 328 m Missing: Position
	RESTAURANT 588 KS	RE588/1	24°37'27"	29°19'00"	0-10	10							10-78	29	37-76	39	78-80	Bedrock: Granite
	RONDEBERG 624 KS	RB624/1	24°44'03"	29°04'49"	0-5	5							5-88	83			88-88,2	Bedrock: Quartzite
		RB624/2	24°42'34"	29°03'29"	0-24	24					24-68	44	68-88	>16	73-77	4		O/B: Overburden & calcrete
		RO624/3	24°42'08"	29°05'11"							0-38	38	38-69	>14	42-59	17		
		RO624/4	24°42'24"	29°04'23"	0-30	30					30-73	43	73-88	>15				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives	Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
ROODEVLAKTE 558 KS	R0558/1	24°32'16"	29°09'41"	941,4	0-3	3	3-129	126	129-264	135	264-335	71	335-347	>12			
	/2	24°33'20"	29°10'09"	936,7	0-4	4	4-86	82	86-215	122	215-336	83	336-349	>13	208-215 228-266	7 38	O/B: Calcrete
	/3	24°31'52"	29°10'52"				0-132	132	132-260	128	260-330	70	330-373	>14	339-368	29	
	/4	24°33'11"	20°09'56"	936,7	0-3	3	3-129	126	129-220	91	220-342	122	342-370	>28			
	/5	24°32'48"	20°09'56"	938,6	0-6	6	6-111	105	111-236	125	236-307	71	307-325	>18			
	/6	24°32'04"	29°10'17"	940,7			0-112	112	112-240	128	240-314	74	314-332	>18			
	/7	24°32'19"	29°10'29"		0-3	3	3-124	121	124-234	110	234-316	82	316-330	>14			
	/8	24°32'37"	29°10'20"	936,0			0-140	140	140-213	73	213-312	99	312-403	>46	357-402	45	
	/9	24°31'57"	20°10'35"	935,5			0-149	149	149-264	115	264-337	73	337-393	>15	345-386	41	
ROOIBOKVLAKTE 120 KS	RV120/1	24°19'23"	29°26'24"		0-40	40			40-69	29	69-78	9				78-92	O/B: Calcrete Bedrock:Schist
ROOIFONTEIN 589 KS	RF589/1	24°37'41"	29°15'54"		0-12	12					12-75	63	75-86	>11			
RUIJTEPLAATS 615 KS	RP615/1	24°36'40"	29°03'04"	979,2	0-14	14	14-75	61	75-200	100	200-330	130	330-342	>12	89-114	25	O/B: Calcrete
	/2	24°36'03"	29°04'10"	-	0-6	6	6-122	116	122-220	98	220-340	120	340-351	>11			
	/3	24°35'30"	29°03'21"	979,3			0-130	130	130-220	90	220-335	115	335-341	>6			
	/4	24°35'15"	29°02'25"	987,2	0-6	6	6-102	96	102-245	143	245-336	91	336-345	>9			
	/5	24°35'53"	29°02'40"	984,8	0-3	3	3-105	102	105-208	103	208-306	98	306-313	>7			
	/6	24°36'17"	29°02'50"	983,0	0-15	15	15-102	87	102-225	123	225-331	106	331-337	>6			O/B: Calcrete
	/7	24°36'59"	29°03'14"	976,2	0-6	6	6-42	36	42-177	135	177-276	99	276-285	>9			O/B: Calcrete
	/8	24°36'32"	29°04'22"	970,4	0-6	6	6-105	99	105-211	106	211-336	125	336-346	>10			

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m. amsl)		Overburden		Basalt		Clarens		Irrigassie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
RUIMTEPLAATS 615KS (Continued)	/9	24°36'05"	29°04'25"	971,3		0-114	114	114-214	100	214-345	131	345-353	>8							
	/10	24°36'20"	29°03'48"	-		0-110	110	110-219	109	219-344	125	344-354	>10							
	/11	24°35'35"	29°03'58"	974,6		0-112	112	112-223	111	223-349	126	349-368	>19							
	/12	24°35'56"	29°03'34"	977,0		0-104	104	104-221	117	221-336	115	336-355	>19							
	/13	24°35'52"	29°04'27"	971,5		0-121	121	121-223	102	223-344	121	344-360	>16							
	/14	24°36'23"	29°04'37"	970,5		0-67	67	67-197	130	197-328	131	328-341	>13							
	/15	24°36'36"	29°03'19"	977,4	0-16	16	16-110	94	110-222	112	222-335	113	335-350	>15						
	/16	24°36'39"	29°03'49"	972,3		0-72	72	72-160	88	160-280	120	280-295	>15							
	/17	24°35'45"	29°03'33"	977,6		0-98	98	98-219	121	219-338	119	338-350	>12							
	/18	24°35'22"	29°03'36"	977,2		0-116	116	116-224	108	224-345	121	345-354	>9							
	/19	24°35'00"	29°00'04"	975,2		0-144	144	144-237	93	237-361	124	361-378	>17							
	/20	24°35'36"	29°04'14"	972,9		0-131	131	131-226	95	226-348	122	348-362	>14							
	SCHIEFFONTEIN 620 KS	SF620/1	24°41'59"	29°00'05"		0-6	6				6-95	90	96-110	>14						
		/2	24°42'35"	29°00'56"		0-13	13				13-83	70	70-94	>24						O/B: Calcrete
		/3	24°43'03"	29°01'20"	957,6						0-61	61	61-70	>9						
		/4	24°42'07"	29°00'50"	966,9						0-84	84	84-96	>12						
		/5	24°42'57"	29°01'04"	955,7		0-7	7			7-67	60	60-76	>16						
	SEBITSELAS- LOKASIE 123 KS (ZEBEDIELA LOCATION)	ZL123/1	24°24'10"	29°22'15"	951,9	0-11	11	11-101	90	101-260	159	260-322	62	322-325	>3					O/B: Calcrete
		/2	24°32'30"	29°22'10"		0-5	5				5-32	27	32-122	64	81-107	26				
		/3	24°27'42"	29°24'54"	903,8	0-2	2						2-62	60						Bedrock: Gra- nite

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasia		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
SEBITIELASLO-KASIE 123KS (Continued)	/4	24°21'07"	29°15'33"															Missing: In-formation	
	/5	24°22'00"	29°25'22"		0-5	5	5-15	10	15-124	109	124-194	70	194-231	37	231-237			Bedrock: Granite	
	/6	24°31'37"	29°21'48"		0-14	14					14-38	24	38-116	78	116-118			Bedrock: Granite	
	/7	24°19'55"	29°22'25"															Missing	
	/8	24°24'53"	29°25'35"		0-5	5			5-77	72	72-162	90	162-217	55	217-220			Bedrock: Granite	
	/9	24°27'25"	29°21'04"		0-4	4			4-115	111	115-203	88	203-258	55	258-261			Bedrock: Feil-site	
	/10	24°32'23"	29°22'08"		0-1	1					1-23	22	23-50	>27				O/B: Calcrete	
	/11	24°32'25"	29°22'10"		0-2	2					2-27	25	27-53	>26					
	/12	24°32'29"	29°22'15"		0-1	1					1-24	23	24-53	>29				O/B: Calcrete	
	/13	24°32'32"	29°22'15"		0-2	2					2-22	20	22-57	>35				O/B: Calcrete	
	/14	24°32'33"	29°22'10"		0-1	1					1-25	24	25-54	>29				O/B: Calcrete	
	/15	24°32'30"	29°22'10"								0-33	33	33-51	>18					
	/16	24°32'25"	29°22'10"	851,5							0-33	33	33-51	>18					
	/17	24°32'21"	29°22'13"	851,5							0-33	33	33-50	>17					
	/18	24°32'29"	29°22'13"	851,4							0-29	29	29-51	>22					
	/19	24°32'25"	29°22'08"	851,4							0-33	33	33-51	>18					
	SINGAPORE 585 KS	S585/1	24°31'33"	29°19'17"		0-6	6			6-13	7	13-138	125	138-146	>8				
	SMALLEPAD 625 KS	SP625/1	24°41'48"	29°05'04"		0-12	12				12-63	51	63-77	>14					O/B: Calcrete

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigastie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Collar elevation m.amsl	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
SPRINGBOKBULT 554 KS	SB554/1	24°31'34"	29°08'39"	948,9	0-12	12	12-195	183	195-338	143	338-392	53	392-400	>7	394-395	1	O/B: Calcrete
	/2	24°32'27"	29°09'05"	946,9			0-166	166	166-290	124	290-375	85	275-386	>11			
	/3	24°31'48"	29°09'19"				0-138	138	138-273	135	273-340	66	340-347	>5	345-347	2	
	/4	24°32'04"	29°09'30"				0-147	147	147-297	150	297-354	57	354-370	>16			
SPRINGSHAANS- LAAGTE 546 KS	SH546/1	24°32'59"	29°00'49"				0-218	218	218-318	100	318-406	88				406-418	Bedrock: Agrilite (Loskop formation)
	UK620/1	24°46'25"	28°51'22"		0-3	3	3-111	108	111-246	135	246-328	82	328-335	>7			
UITKOMST 156 KS	UZ156/1	24°26'17"	29°12'59"	957,4	0-3	3	3-353	350	353-524	129	524-586	62	586-597	>11	383-425	42	
UITZICHTSPUNT 553 KS	UP553/1	24°34'10"	29°07'29"		0-6	6	6-92	86	92-191	99	191-306	115	306-318	>12			
	/2	24°33'07"	29°07'54"	956,5	0-12	12	12-141	129	141-257	116	257-334	77	334-335	>1			
	/3	24°33'36"	29°06'19"		0-3	3	3-119	116	119-215	196	215-315	100	315-317	2			317-328 Bedrock: Quartzite
	/4	24°33'34"	29°08'05"	955,5	0-3	3	3-98	95	98-185	87	185-300	104	300-303	3	223-234	11	303-308 Bedrock: Fel-site
	/5	24°34'42"	29°08'02"	954,4	0-6	6	6-56	50	56-140	84	140-271	131	271-283	>12			
	/6	24°35'43"	29°06'55"	955,7	0-6	6	6-24	18	24-165	141	165-285	120	285-292	>7			O/B: Calcrete
	/7	24°35'05"	29°07'09"	957,0			0-60	60	60-148	88	148-278	130	278-346	>55	319-332	13	
	/8	24°35'13"	29°08'15"	949,9			0-55	55	55-148	93	148-270	122	270-300	>2	272-300	28	
	/9	24°35'00"	29°07'07"	951,7							160-269	109	269-279	>10			
	/10	24°34'28"	29°07'57"	954,9	0-7	7	7-60	53	60-148	88	148-277	129	277-284	>7			Dolerite stringers (213-242m)
	/11	24°34'14"	29°07'52"	955,8			0-81	81	81-169	88	169-286	109	286-289	>3	198-206	8	

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
UITZICHTSPUNT 553KS (Continued)	/12	24°33'58"	29°07'44"	957,9			0-93	93	93-188	95	188-303	115	303-307	>4					
	/13	24°35'01"	29°06'46"				0-60	60	60-150	90	150-267	117	267-279	>12					
	/14	24°34'18"	29°07'04"	960,7			0-98	98	98-183	85	183-306	123	306-311	>5					
	/15	24°33'58"	29°07'17"	959,7			0-105	105	105-189	84	189-302	113	302-312	>10					
	/16	24°33'54"	29°08'00"	955,9	0-4	4	4-81	77	81-173	88	173-296	115	296-302	>6	150-154 241-249	4 8			
	/17	24°34'32"	29°08'30"	952,5	0-14	14	14-55	41	55-160	105	160-277	117	277-289	>12					
	/18	24°34'53"	29°07'39"	952,5			0-53	53	53-154	101	154-275	121	275-276	>1					
	/19	24°34'33"	29°07'16"	956,0			0-83	83	83-175	88	175-305	130	305-313	>8	203-207	4			
	/20	24°35'21"	29°06'29"	959,5			0-55	55	55-148	93	148-262	114	262-268	6			268-271	Bedrock: Agrillite	
	/21	24°35'16"	29°07'20"	952,3			0-60	60	60-143	83	143-270	127	270-302	>32					
	/22	24°34'39"	29°06'53"	959,6			0-87	87	87-174	87	174-291	117	291-302	>11					
	/23	24°33'46"	29°07'39"	953,4			0-101	101	101-192	91	192-303	111	303-306	3			312-313	Tillite 306-312 Bedrock: Fel- site	
	/24	24°34'04"	29°07'03"	960,8	0-4		4-103	99	103-185	82	185-306	121	306-315	9			315-323	Bedrock: Fel- site	
	/25	24°34'32"	29°07'34"	956,7			0-73	73	73-172	99	172-298	117	298-335	37	194-196 203-205 205-208 227-229	2 2 3 2	335-336	Bedrock: Fel- site Dolerite stringers	
	VARKENSKUIL 605 KR	VK605/1	24°46'36"	28°34'52"		0-16	16							16-24	8			24-37	Bedrock: Fel- site Uncertain: 16 - 24 m
		/2	24°45'40"	28°36'14"		0-15	15					15-33	18	33-60	>27				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigatie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
VARKENSKUIJL 605KR (Continued)	/3	24°45'29"	28°36'05"		0-17	17					17-32	15	32-62	30			82-65	Bedrock: Fel-site	
	/4	24°45'34"	28°36'25"		0-9	9					9-40	31	40-66	26			66-73	Bedrock: Fel-site	
	/5	24°45'47"	28°36'17"		0-13	13					13-34	21	34-61	27			61-73	Bedrock: Fel-site	
	/6	24°45'39"	28°35'55"		0-15	15					15-35	20	35-62	27			62-73	Bedrock: Fel-site	
	VERLOREN 622 KR	VE622/1A	24°47'20"	28°54'25"	998,20	0-3	3	3-40	37	40-148	108	148-261	113	261-275	>14				
	VERWEG 540 KR	VW504/1	24°31'31"	28°54'22"		0-9	9	9-167	158	167-313	146	313-398	85	398-405	>7				
VOLSPRUIT 606 KS	VS606/1	24°36'39"	29°08'32"		0-5	5			5-98	93	98-225	127	225-300	70	233-238	5	300-313	Bedrock: Breccia	
	/2	24°35'32"	29°07'33"		0-16	16	16-41	25	41-147	106	147-271	124	271-282	>11				0/B: Calcrete	
	/3	24°35'05"	29°08'44"	948,6	0-13	13	13-56	43	50-147	85	147-298	151	298-314	>16	135-141	6		0/B: Calcrete	
	/4	24°36'25"	29°07'16"	950,3	0-3	3	3-28	25	28-122	94	122-246	124	246-256	>10				0/B: Calcrete	
	/5	24°35'23"	29°07'59"		0-9	9	9-24	13	24-133	109	133-258	125	258-271	>13	286-292	6		0/B: Calcrete	
	/6	24°36'01"	29°07'54"		0-21	21	21-54	33	54-155	101	155-279	124	279-298	>13					
	/7	24°35'47"	29°07'39"				0-57	57	57-164	107	164-286	122	286-297	>11					
	/8	24°36'14"	29°07'09"				0-42	42	42-128	86	128-254	126	254-262	>8					
	/9	24°36'57"	29°07'53"	946,1					0-90	90	90-222	132	222-234	>12					
	/10	24°35'30"	29°08'20"	948,6			0-59	59	59-159	100	159-294	118	294-307	>13	243-260	17			
	/11	24°36'21"	29°07'50"	948,6	0-9	9	9-15	6	15-109	94	109-240	131	240-256	>16					
	/12	24°35'52"	29°07'14"	953,6			0-60	60	60-162	102	162-302	132	302-319	>17	229-237	8			

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
VOORDEEL 559 KR	VD559/1	24°40'06"	28°45'19"		0-11	11	11-67	56	67-159	92	159-245	86	245-283	38			283-286	Bedrock: Quartzite
	/2	?	?		0-9	9			9-66	57	66-130	64	130-154	24			154-162	Bedrock: Quartzite Missing: Position
	/3	?	?		0-6	6			6-58	52	58-101	43					101-123	Bedrock: Quartzite Missing: Position
	/4	?	?		0-3	3			3-111	108	111-122	11					122-125	Bedrock: Fe1-site Missing: Position
	/5	?	?		0-18	18			18-69	51	69-126	57	126-149	23				O/B: Overburden/decomposed sandstone Missing: Position
	/6	?	?						0-76	76	76-136	60	136-152	16			158-161	Tillite: 152-158 m Bedrock: Quartzite Missing: Position
	/7	?	?						0-78	78	78-134	56						Tillite: 134-142 m Missing: Position
VRISCHGEWAAGD 601 KS	VG601/1	24°38'52"	29°12'06"		0-7	7					7-49	42	49-68	>19				O/B: Calcrete (2 - 7 m)
	/2	24°39'50"	29°10'56"	913,8	0-6	6					6-68	66	68-80	>12				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigasië		Ecca		* Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
VRISCHGEWAAGD 601KS (Continued)	/3	?	?										0-96	87	27-36	9	96-135	Bedrock: Granite Missing: Position
	VL594/1	24°35'56"	29°13'05"		0-11	11			11-49	38	49-183	134	183-205	>22				
	WG693/1	?	?		0-20	20							20-61	41			61-72	Bedrock: Quartzite Missing: Position
WELTEVREDE 670 KS	W670/1	24°47'39"	29°04'14"	940,5	0-26	26					26-77	51	77-105	28			113-117	Tillite: 105 - 113 m Bedrock: Quartzite Uncertain: 26-77m, 77-105m
	/2	24°47'08"	29°03'15"	951,7	0-15	15					15-50	35	50-149	74	120-145	25	163-164	Tillite: 149 - 163 m Bedrock: Quartzite
	/3	24°48'15"	29°02'38"	954,2	0-18	18					18-68	50	68-167	86	132-145	13	168-173	Tillite: 167 - 168 m Bedrock: Quartzite
	/4	24°48'34"	29°03'36"	943,0	0-13	13					13-48	35	48-144	96			146-147	Tillite: 144 - 146 m Bedrock: Quartzite
	/5	24°47'56"	29°01'34"	995,5	0-6	6			6-60	54	60-161	101	161-178	>15	176-178	2		
	/6	24°47'38"	29°02'51"	951,4	0-18	18					18-49	31	49-56	>7				
	/7	24°48'26"	29°01'46"	980,0	0-13	13			13-33	20	33-138	105	138-151	>13				
	/8	24°48'43"	29°02'21"	959,5	0-5	5					5-90	85	90-101	>11				
	/9	24°49'06"	29°02'02"	958,9	0-8	8					8-92	84	92-109	>17				

TABLE 2.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigassie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
WELTEVREDE 670KS (Continued)	/10	24°48'10"	29°02'10"	969,2	0-13	13			13-26	13	26-142	116	142-160	>18				
	/11	24°48'29"	29°03'14"	945,8	0-5	5					5-48	43	48-85	>37				
	/12	24°49'22"	29°02'38"	949,4	0-14	14					14-64	50	64-90	>26				
	/13	24°47'44"	29°02'13"	964,9	0-24	24					24-93	69	93-112	>19				
	/14	24°48'05"	29°03'06"	948,9	0-12	12					12-57	45	57-75	>18	55-64 68-70 70-72	9 2 2		
	/15	24°48'08"	29°02'57"	950,8							0-72	59	72-90	>18				
	/16	24°48'50"	29°02'46"	947,9	0-35	35					35-68	33	68-93	>25				
	/17	24°47'53"	29°02'46"	954,7	0-32	32					32-58	26	58-86	>28				
ZAMKOMST 162 KS	ZK162/1	24°28'56"	29°18'17"		0-13	13			47-130	83	130-229	99	229-239	>10				0/B: Calcite

TABLE 2.1 (Continued)

RECORDS OF COAL EXPLORATION BOREHOLES DRILLED BY
OTHER EXPLORATION COMPANIES

(TABLES 3 AND 3.1)

Note: All depths and thicknesses are given in m

RECORDS OF COAL EXPLORATION BOREHOLES DRILLED BY
OTHER EXPLORATION COMPANIES

(TABLES 3 AND 3.1)

Note: All depths and thicknesses are given in m

TABLE 3: COAL EXPLORATION BOREHOLES DRILLED BY OTHER EXPLORATION COMPANIES

Cadastral farm, name and number	Name of the exploration company and borehole number			
	Anglo American Corporation of South Africa (AA)	Goldfields (GO)	Messina (Tvl) Development Co. Ltd (MD)	Transvaal Consolidated Land & Exploration Co. Ltd (TC)
APPELFONTEIN 595 KS				RAF/1-2
BOKPOORTLAAGTE 599 KS				RBL/1-3
BOOMFONTEIN 666 KS	BF/1-42			
CYFERFONTEIN 601 KR	CF/1-10			
DANSPAN 139 KS		BH/1834		
DE BILT 602 KS				RDB/1-3
DOORNSTOCK 622 KS				DS/1-7
DRI BERGEN 690 KS				RDBG/1-2
FOLEYS RUST 583 KS				FR/1
FRSCHGEWAAGD 597 KS				RFG/1-2
GRASPLAATS 161 KS	GP/1			
GROOTHOEK 106 KS	GH/1			
HAAKDOORNPOORT 606 KS	HD/1-3			
HOOGBULT 608 KS	HB/1-5			
HOORNPLAATS 142 KS	HP/1			
KLAVERVALLEY 616 KS	KV/1-4			RKV/1
KLIPPAN 555 KS	KP/1-6			RKP/1, RKP/18
KLIPPLAATS 577 KR	KG/1			
KLIPPUTGAT 572 KR	KG/1			
KRUGERSKRAAL 583 KR				RKK/1
MAROELESFONTEIN 602 KR	MF/1-2			
MERWEDE 559 KS			M/1	
MOOIGELEGEN 586 KR	MG/1-10			
MOOIPAN 546 KR				RMP/1
RIETLAAGTE 149 KS	RTL/1			
RONDEDOORN 134 KS	RD/1			
ROODE KOP 600 KS				RP/1-2
SCHUIPLAATS 596 KS				RSP/1
TYGERPAD 633 KS				RTP/1
UITZICHTSPUNT 553 KS	UP/1			
WELBEKEND 580 KR	WD/1-7			
ZAAIPLAATS 579 KR	ZP/1-2			
ZOETKOPJES 581 KR				RZK/1
TOTAL	99	1	1	30

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl		Overburden		Basalt		Clarens		Irrigastie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
APPELFONTTEIN 595 KS (TC)	RAF/1	24°35'36"	29°14'32"	945	0-6	6						6-155	146	155-186	14	105-107 149-150 154-155 163-172 174-182	1 1 1 9 8	186-188	Bedrock: Quart- zite	
	RAF/2	24°37'05"	29°14'27"	920	0-5	5						5-130	125	130-164	34			164-165	Bedrock: Quart- zite	
BOKPOORTLAAGTE 599 KS (TC)	RBL/1	24°34'28"	29°10'48"	935	0-5	5	37	5-42	107	42-149	127	149-322	>12	322-334	>12	260-306	46		Uncertain: 149 - 322 m	
	/2	24°35'16"	29°10'03"	942	0-11	11	24	11-35	166	35-201	68	201-269		269-341	72	416-419	3	356-531	Tillite: 341- 356m. Bedrock: Shale/ quartzite/ shale	
BOOMFONTTEIN 666 KS (AA)	/3	24°35'16"	29°08'58"	946	0-2	2	66	2-68	99	68-167	128	167-289		289-348	59			348-357	Bedrock: Fe1- site(Rooiberg)	
	BF/1	24°47'49"	29°01'47"									0-147		147-170	>23				Uncertain: 0-147 m	
	/2	24°47'19"	29°01'26"	981					56	0-56	59	56-115		115-131	>16				Uncertain: 56-115 m	
	/3	24°48'20"	29°01'31"	984					100	0-100	67	100-167		167-181	>14				Uncertain: 100-167m	
	/4	24°48'46"	29°00'32"	995					87	0-87	56	87-143		143-159	>16					
	/5	24°48'17"	29°00'18"	1006					106	0-106	55	106-161		161-176	>15				Uncertain: 106-161 m	
	/6	24°47'45"	29°00'56"	1006					9	0-9	62	99-161		161-176	>15					
	/7	24°47'18"	28°59'48"	1006					143	0-143	54	143-197		197-211	>14					
	/8	24°47'21"	28°58'39"	1001					104	0-104	130	104-234		234-241	> 5	239-241	2		Uncertain: 104-234 m	
	/9	24°46'49"	29°01'09"	983					94	0-94	22	94-116		116-131	>15				Uncertain: 0-94m, 94-116m	

TABLE 3.1: Geological information of coal exploration boreholes drilled by other exploration companies

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
BOOMFONTEIN 666 KS (Continued) (AA)	/10	24°49'07"	28°59'45"	979					0-96	96	96-147	51	147-161	>14				
	/11	24°46'09"	29°00'42"	982,9							0-65	65	65-93	>23	57-72	5		
	/12	24°46'20"	29°	990							0-76	76	76-96	>20				
	/13	24°46'37"	28°59'26"	999					0-88	88	88-172	84	172-188	>16				
	/14	24°46'28"	28°59'53"	992					0-80	80	80-102	22	102-121	>19				
	/15	24°47'24"	28°59'25"	1007					0-135	135	135-201	66	201-220	>19				Uncertain: 0-135 m, 135-201 m
	/16	24°47'00"	28°58'26"	1005					0-174	174	174-232	58	232-237	>5				
	/17	24°46'47"	28°58'59"	1005					0-139	139	139-195	56	195-202	>7				
	/18	24°46'28"	28°59'48"	992					0-88	88	88-108	20	108-112	>4				
	/19	24°46'27"	28°59'51"	992					0-80	80	80-96	16	96-104	>8				Uncertain: 0-80m, 80-96m
	/20	24°46'31"	28°59'44"	994					0-103	103	103-137	34	137-142	>5				
	/21	24°46'30"	28°59'46"	994					0-144	144	144-160	16	160-165	>5				Uncertain: 0-144m, 144-160m
	/22	24°46'33"	28°59'40"	994					0-112	112	112-169	57	169-173	>4				
	/23	?	?		0-9	9					9-65	56	65-67	>2				Missing: Position
	/24	24°46'45"	28°59'06"		0-7	7			7-80	73	80-188	108	188-201	>13				
	/25	24°46'46"	28°59'19"		0-2	2			2-88	86	88-184	96	184-192	>8				
	/26	24°46'49"	28°59'38"		0-5	5			5-79	72	79-171	92	171-185	>14				
	/27	24°46'40"	28°59'33"		0-4	4			4-79	75	79-170	91	170-176	>6				
	/28	24°46'35"	28°59'52"		0-4	4			4-82	78	82-156	74	156-162	>6				

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m.amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
BOOMFONTEIN 666 KS (Continued) (AA)	/29	24°46'26"	28°59'57"		0-5	5					5-87	82	87-94	> 7				
	/30																	Hole abandoned
	/31	24°46'46"	28°59'45"		0-7	7			7-85	78	85-163	78	163-173	>10				
	/32	24°46'54"	28°59'00"		0-4	4			4-97	93	97-194	97	194-210	>16				
	/33	24°46'29"	29°00'05"		0-13	13					13-80	67	80-86	> 6				
	/34	24°46'22"	29°00'22"		0-5	5			5-19	14	19-66	47	66-78	>12				
	/35	24°46'25"	29°00'31"		0-3	3			3-11	8	11-59	48	59-69	> 8	67-69	2		
	/36	24°46'51"	29°00'05"		0-4	4			4-38	34	38-155	117	155-161	> 6				
	/37	24°47'10"	28°59'26"		0-4	4			4-78	74	78-170	92	170-197	>27	174-179	5		
	/38	24°46'54"	29°00'26"		0-3	3			3-48	45	48-146	98	146-155	> 9				
	/39	24°47'14"	29°00'16"		0-3	3			3-60	57	60-173	113	173-187	>14				
	/40	24°47'05"	28°59'44"		0-4	4					4-169	165	169-177	> 8				
	/41	24°47'01"	29°00'47"		0-2	2			2-33	31	33-133	100	133-142	> 9				
	/42	24°46'37"	29°00'18"		0-3	3			3-50	47	50-141	91	141-151	>10				
CYFERFONTEIN 601 KR (AA)	CF/1	?	?															Missing: Position and information
	/2	24°45'37"	28°36'28"	1112						0-42	42	42-63	>21					
	/3	24°45'55"	28°36'31"	1112						0-40	40	40-59	>19					
	/4	24°45'14"	28°37'02"	1108	0-12	12				12-51	30	51-71	>20					
	/5	24°44'50"	28°37'49"	1108						0-26	26	26-42	16				42-61	Bedrock: Fe1-site
	/6	24°44'18"	28°37'08"	1112						0-23	23	23-36	13				36-38	Bedrock: Fe1-site

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Collar elevation m.amsl	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
CYFERFONTEIN 601 KR (Continued) (AA)	/7	24°45'07"	28°38'15"		1106					0-56	56	56-79	23			79-81	Bedrock: Fel-site
	/8	24°45'22"	28°38'31"		1106					0-55	55	55-79	24			79-81	Bedrock: Quartzite/Waterberg
	/9	24°45'40"	28°38'56"		1106					0-45	45	45-62	17			62-64	Bedrock: Waterberg sandstone
	/10	24°45'05"	28°36'40"		1106			0-21	21							21-61	Bedrock: Fel-site
DANSPAN 139 KS (GO)	BH/1834	24°27'13"	29°02'44"		1019	0-551	551	551-690	139	690-735	45	735-786	51			789-790	Tillite: 786-789m, Bedrock: Dolomite Uncertain: 551-690m, 690-735m, 735-786m,
	RB/1	24°37'28"	29°09'24"		931			15-116	101	116-163	47	163-250	87	174-194	20		Tillite: 250-269 m Siltstone: 269-275 m Uncertain: 15-116m, 116-163 m
	/2	24°39'00"	29°10'04"		924					6-103	97	103-121	>18				
DOORNSTOCK 622 KS (TC)	/3	24°38'49"	29°08'11"		960	0-6	6			6-134	128	134-151	>17				Uncertain: 6-134m, 134-151m
	DS/1	24°39'32"	29°04'22"		986			0-134	121	134-192	58	192-211	>14	20-32 106-107 206-211	12 1 5		
	/2	24°39'49"	29°03'50"		991			0-142	96	142-211	69	211-231	>20	23-26 27-70	3 43		
	/3	24°40'31"	29°02'40"		972			0-116	93	116-163	47	163-190	>27	0-23	23		
/4	24°40'15"	29°03'11"		986			0-77	22	77-192	115	192-218	>26	0-55	55			

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
DOORNSTOCK 622 KS (Continued)	/5	24°42'30"	29°03'37"	948								0-45	45	45-78	>29	74-78	4		
	/6	24°42'14"	29°03'57"	945	0-21							21-79	58	79-91	>12				O/B: Calcrete
	/7	24°41'41"	29°04'57"	941	0-14							14-61	47	61-75	>14				
DRI BERGEN 690 KS (TC)	RDBG/1	24°38'30"	29°06'33"	953	0-4	4				4-77	73	77-192	115	192-277	85			288-289	Tillite: 277-288m, Bedrock: Quartzite
	/2	24°40'03"	29°06'32"	946	0-5	5				5-9	4	9-106	97	106-117	>11				
FOLEYS RUST 583 KS (TC)	FR/1	24°36'26"	29°20'57"	850	0-9	9								9-93	45	29-68	39	93-106	Bedrock: Granophyre (intrusive, sill)
	RFG/1	24°37'07"	29°12'38"	946	0-2	2				2-132	130	132-188	56	188-262	74				Tillite: 262-270m, Dyke: 251/61-252/07m
GRASPLAATS 161 KS (AA)	/2	24°38'11"	29°13'45"	914	0-7	7						7-88	81	88-104	>16				
	GP/1	24°26'26"	29°15'53"	945	0-5	5	5-288	257	288-402	114	402-429	27	429-463	34	463-482			463-482	Sandstone: 245-271m (25m) Bedrock: Granite
GROOTHOEK 106 KS (AA) HAAKDOORNPOORT 606 KS (AA)	GH/1	24°18'46"	29°23'17"	1036			0-118	118	118-160	42									Depth unknown
	HD/1	24°48'07"	28°32'57"	1127	0-20	20					20-88	68	88-94	6	94-95			94-95	O/B: Sandstone/conglomerate/alluvium Bedrock: Felsite/granite
	/2	24°48'21"	28°32'15"	1135	0-14	14				14-40	26	40-88	48	88-89	>1				O/B: Alluvium
	/3	24°47'45"	28°34'20"	1126							0-57	57						57-65	Bedrock: Granite

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m. amsl	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
HOOGBULT 608 KS (AA)	HB/1	24°37'44"	29°05'40"	962					0-170	170	170-223	53	223-230	> 7				
	/2	24°38'30"	29°06'07"	957					0-139	139	139-189	50	189-198	> 9				
	/3	24°37'53"	29°07'45"	950					0-132	132	132-180	48	180-186	> 6				Dyke: 188, 50-188, 60m Uncertain: 132 - 180m
	/4	24°37'23"	29°07'28"	953					0-174	174	174-222	48	222-233	> 11				Core trampled between 0-222m
HOORNPLAATS 142 KS (AA)	/5	24°37'41"	29°06'30"	963					0-174	174	174-226	52	226-235	> 9				
	HP/1	24°29'15"	29°02'46"	1012	0-6	6	6-446	440	446-548	102	548-643	95	643-652	> 9				Uncertain: 446-548m, 548-643, 643-652m
KLAVERVALLEY 616 KS (TC)	RKV/1	24°36'36"	29°02'37"	985	0-9	9	9-115	94	115-241	126	241-323	82	323-339	> 16				Sandstone: 85-87m, 92-102m
	KV/1	24°36'50"	29°03'02"	982			0-113	99	113-268	155	268-328	60	328-341	> 13				Sandstone: 74-80, 83-91m (Total = 14m) 268-328m: Includes upper Ecca
	/2	24°35'20"	29°02'15"	989			0-115	115	115-266	151	266-332	66	332-364	> 32				
	/3	24°37'07"	29°02'05"	985			0-5	5	5-225	164	225-282	57	282-298	> 16	95-151	56		
KLIPPAN 555 KS (TC)	/4	24°37'10"	29°01'18"	993			0-26	26	26-228	202	228-286	58	286-292	> 6				
	RKP/1	24°33'39"	29°09'18"	947	0-11		11-65	54	65-198	133	198-283	70	283-349	29	257-261	4	349-382	Bedrock: Quartzite, Uncertain: 198-283m, 283-349m
	/18	24°33'49"	29°08'39"	955	0-2	2	2-65	63	65-167	102	167-281	111	281-314	33	253-256	3		Tillite: 335-341 m

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Overburden		Basalt		Clarens		Irrigasic		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
KLIPPAN 555 KS (AA)	KP/1	24°32'18"	29°09'38"			0-129	129	129-261	132	261-334	73	334-343	> 9				
	/2	24°32'52"	29°08'07"			0-151	151	151-285	134	285-348	63	348-368	>20				Uncertain: 151-285m, 285-348m
	/3	24°34'22"	29°10'31"			0-48	48	48-231	183	231-282	51	282-295	>13				Uncertain: 48-231m, 231-282m
	/4	24°35'02"	29°08'46"			0-59	59	59-250	175	250-300	50	300-312	>12	128-144	16		Uncertain: 59-250m, 250-300m
KLIPPLAATS 577 KR (AA)	/5	24°34'20"	29°08'29"			0-61	61	61-227	166	227-281	54	281-288	> 7				
	/6	24°32'47"	29°09'51"			0-95	95	95-226	131	226-305	79	305-311	> 6				
KLIPPUTGAT 572 KR (AA)	KG/1	24°41'34"	28°18'00"					0-42	42	42-124	82					124-132	Bedrock: Fe1d- spathic sand- stone (Water- berg Group). Position is not accurately given
		24°41'38"	28°42'56"					0-42		42-124	82						Waterberg sandstone 124-132m
KRUGERSKRAAL 583 KR (TC)	RKK/1	24°41'19"	28°55'55"	0-22		22-23	1	23-79	56	79-189	110	189-271	82				O/B: Calcrete (2-22m) Tillite/sand- stone/shale (271-281m)
		24°51'02"	28°37'14"			0-304	304	304-483		483-515						515-527	Bedrock: Gra- nite
MAROELESFONTEIN 602 KR (AA)	/2	24°50'07"	28°39'32"			0-303	303	303-422		422-542		542-544					Breccia (Dwyka?): 544- 550m (quartz, hae- matite, ser- pentine and epidote) Uncertain: 422-542m

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation (m.amsl)	Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks
		Latitude	Longitude		Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick		
MERWEDE 559 KS (MD)	M/1	24°31'03"	29°13'05"				0-106	106	106-260	154	260-313	53	313-379	>62	375-379	4		Uncertain: 106-260 m
MOOIGELEGEN 586 KR (AA)	MG/1	24°46'07"	29°00'26"		0-6	6					6-79	73	79-86	> 7				
	/2	24°45'57"	29°00'32"		0-3	3			3-35	32	35-84	49	84-85	> 1				
	/3	24°46'12"	29°00'11"		0-2	2			2-28	26	28-80	52	80-82	> 2				
	/4	24°46'21"	28°59'46"		0-3	3			3-34	31	34-88	54	88-93	> 5				
	/5	24°46'25"	28°59'36"		0-3	3			3-44	41	44-96	52	96-103	> 7				
	/6	24°46'23"	28°59'26"		0-4	4			4-51	47	51-106	55	106-112	> 6				
	/7	24°46'30"	28°59'21"		0-2	2			2-89	87	89-170	81	170-179	> 9				
	/8	24°46'36"	28°59'41"		0-4	4			4-102	98	102-183	81	183-192	> 9				
	/9	24°46'20"	28°59'16"		0-2	2			2-63	61	63-118	55	118-121	> 3				
	/10	24°46'27"	28°59'10"		0-3	3			3-72	69	72-172	100	172-179	> 5				
MOOIPAN 546 KR (TC)	RMP/1	24°36'01"	28°53'37"	1033	0-3	3	3-29	26	29-125	96	125-182	57					182-200	Bedrock: Rooiberg felseite
RIETLAAGTE 149 KR (AA)	RTL/1	24°25'56"	29°10'34"				0-497	497	497-644	147	644-708	64	708-721	>13	513-528	15		Uncertain: 644-708 m
RONDEDOORN 134 KS (AA)	RD/1	24°24'30"	29°05'46"	1039	0-11		11-690	659	690-769	79	769-831	62	831-834	> 3				Mudstone/shale/sandstone inclusion: 630-639m, 647-649m, 663-664m, 673-681m (Total = 20m)
ROODE KOP 600 KS (TC)	RP/1	24°37'10"	29°10'04"		0-23	23			23-48	25	48-172	124	172-187	>15				
	/2	24°38'46"	29°12'02"		0-24	24			24-41	17	41-63	17	41-63	>22				

TABLE 3.1 (Continued)

Cadastral farm name and number	Borehole number	Co-ordinates		Collar elevation m. AMSL		Overburden		Basalt		Clarens		Irrigasie		Ecca		Intrusives		Bedrock	Remarks	
		Latitude	Longitude	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick	Depth	Thick			
SCHUIPLAATS 596 KS (TC) TYGERPAD 633 KS (TC)	RSP/1	24°39'33"	29°15'44"	888	0-10	10								10-18	8	18-42	24	42-61	Bedrock: Grano- phyre	
UITZICHTSPUNT 553 KS (AA)	RTP/1	24°38'30"	29°20'05"	858	0-8									8-79	24	20-67	47	79-81	Bedrock: Grano- phyre	
UITZICHTSPUNT 553 KS (AA)	UP/1	24°33'37"	29°08'05"	959			0-95			95-235	135	235-300	65			228-233	5	300-305	Bedrock: Scree (300,5-303,3m) felsite (303,3 - 305,1m) Ecca: 300,4 - 300,6m (0,20m)	
WELBEKEND 580 KR (AA)	WD/1	24°40'14"	28°56'57"	1001						0-98	98	98-209	111	209-223	>14					
	/2	24°39'49"	28°57'50"	997						0-102	102	102-219	117	219-232	>13					
	/3	24°37'52"	28°56'45"	1013	0-14	14	14-87	73	87-240	153	240-305	65	305-321	>16					O/B: Calcrete	
	/4	24°38'36"	28°54'39"	1017			0-94	94	94-260	166	260-306	46	306-310	>4					Uncertain: 92-260m, 260- 306m	
	/5	24°40'52"	28°55'40"	1006	0-18	18			18-162	144	162-241	79	241-255	>14					O/B: Calcrete	
	/6	24°38'49"	28°57'12"	1006	0-19	19	19-34	15	34-191	157	191-271	80	271-277	>6					O/B: Calcrete	
	/7	24°40'38"	28°56'10"	1006					0-189	189	189-217	28	217-227	>10					Uncertain: 0-189m, 189- 217m	
ZAAIPLAATS 579KS (AA)	ZP/1	24°41'39"	28°53'25"				0-23	23	23-189	166	189-223	34	223-228	>5						
	/2	24°39'39"	28°52'28"	1022			0-73	73	73-190	117	190-266	76	266-268	>2						
ZOETKOPJES 581KR (TC)	RZK/1	24°39'25"	28°58'15"	998	0-20	20	20-24	4	24-114	90	114-234	120	234-311	77						O/B: Calcrete (3-20m) Tillite: 311- 314,7m Bedrock: 314,7 -315,1

TABLE 3.1 (Continued)

APPENDICES

APPENDIX 1: LIST OF MISSING RECORDS OF COAL EXPLORATION BOREHOLES

Cadastral farm, name and number	Borehole No.	Missing		Name of exploration company
		Borehole position	Borehole information	
BLINDEFONTEIN	570 KR	BF570/5	*	Gencor
BOOMFONTEIN	666 KS	BF/23	*	Anglo Amercian
BRAKFONTTEIN	152 KS	BK152/1		* Gencor
CYFERFONTEIN	601 KR	CF/1	*	* Anglo American
GROENVALLEY	587 KR	GV587/1	*	Gencor
HANGLIP	593 KS	HA593/2	*	Gencor
HOOGBULT	608 KS	HB608/20		* Gencor
KLIPPAN	555 KS	KP555/1		* Gencor
"	"	KP555/9,10,14,15	*	* Gencor
KRANSKOP	610 KS	KP610/5	*	* Gencor
MINERWA	628 KS	MN628/4		* Gencor
REMBERANDT	150 KS	RB150/1	*	Gencor
SEBITIELASLOKASIE (ZEBEDIELA LOCATION)	123 KS	ZL123/4,7		* Gencor
VOORDEEL	559 KR	V0559/2-7	*	Gencor
VRISCHGEWAAGD	601 KS	VG601/3	*	Gencor
WELGEGUND	693 KS	WG693/1	*	Gencor