

Borehole Information

Borehole Number:

105/21/X008/H1

Prospecting Company: De Beers Prospecting Botswana (Pty) Ltd

Prospecting License No.: PL78/88 Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees **Coordinates:** -22.944728 , 21.095529

Location: Ghanzi

Start Drill: N/A End Drill: N/A

Borehole Type: Exploration
Drilling Method: Core
Sample Type: Core

Depth of Surface Casing: N/A

Azimuth: Degrees
Hole Inclination: N/A
Collar Elevation: N/A
Borehole Water Strike: N/A
End of Hole (Depth): N/A

Log Formation:

No.	From (m)	To (m)	Log Formation
1.	0	4	Loose Kalahari sand.
2.	0	2	No sample recovery.
3.	2	4	Sandy calcrete+ unconsolidated Sands.
4.	4	6	Semi consolidated Sands+ pale cream Sandy calcrete-evidence of bioturbation.
5.	6	8	Semi consolidated calcretised Sands.
6.	8	22	Very poor sample recovery (no chips) med grained, poorly consolidated Sands.
7.	22	24	Coarse grained, poorly consolidated pale cream Sandstone.
8.	24	34	Poor sample recovery-semi /unconsolidated Sands.
9.	34	36	Poor sample recovery. Small no of chips of orange calcrete + quartz + mudstone.
10.	36	38	Fine grained Silcrete. Pale cream-dark brown. Limonitic staining evident.
11.	38	40	Fine grained iron stained Silcrete + Sandy calcrete-pale cream-orange.
12.	40	42	Dark brown/red iron stained Silcrete+ Sandy pale cream calcrete.
13.	42	48	Dark brown/red iron stained Silcrete+ pale cream/buff calcareous Sandstone.
14.	48	56	Massive pale cream/buff calcareous Sandstone + dark brown/red Silcrete. Some evidence of bioturbation trace fossils (burrows) occasionally pale pink-orange iron stained parches.

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Light + grey calcareous Sandstone coarse grained + iron stained Silcrete + pale cream med. grained c Sandstone. Light + grey calcareous Sandstone coarse grained + iron stained Silcrete + pale cream med. grained c Sandstone. Massive pale cream-light grey (med-coarse grained) calcareous Sandstone + Silcrete. (iron stained red Pale cream-pale pink med/coarse grained calcareous Sandstone (iron staining) + minor Silcrete. Essentially the same as above-calcareous Sandstone with minor Silcrete. There are minor variations in pale cream-buff-light grey-pale pink and amounts of Silcrete. Otherwise homogenous. Pale cream med. Grained calcareous Sandstone. Pale cream-pale pink, fine-med. Grained calcareous Sandstone. Pale cream-pale pink, fine-med grained calcareous Sandstone. Minor variations in colour+ grain size. Med/coarse grained calcareous Sandstone. (rounded qtz grains) Med/coarse grained calcareous Sandstone. Calcareous Sandstone. Essentially homogeneous minor colour + grain size variations. (occasionally Conglomerateeritic with med grained rounded calcareous Sandstone clasts set in fine grained muddy r semi consolidated.) Calcareous Sandstone clasts- occasionally Conglomerateeritic, rounded+ med grained calc. clasts set in pale pink/brown fine grained matrix semi consolidated. Medium grained, pale pink calcareous Sandstone. Minor variations in colour (pale pink-cream) and grain size-coarse grained Sandstone.) and occasional consolidated Conglomerateerate. Pale pink rounded clasts of med grained calcareous Sandstone set in a fine grained pale pink muddy r semi consolidated Conglomerateerate.	alcareous
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0. 138 146 Homogeneous calc. Sandstone (colour variations pale cream-pink-dark pink).	
1. 146 148 Pale cream/pink med grained calcareous Sandstone.	
. 148 150 Pale pink/cream med grained calcareous Sandstone.	
s. 150 160 Essentially homogenous cal. Sandstone with minor variations in grain size and colour (cream-pale pink	κ).
1. 160 170 Pale pink/cream med grained calcareous Sandstone. (mottling effect, pink patches on cream-pale pink	ι)
5. 170 172 Pale pink and mottled buff/cream med grained calcareous Sandstone.	
 172 174 Pale pink + cream med grained calcareous Sandstone + light grey/green very fine grained Sandstone (mudstone!) 	(coarse
7. 174 175 Grey green fine grained Sandstone.	
8. 174 176 Buff med. grained Sandstone+ green/grey very fine grained Sandstone.	
9. 176 178 Grey/green/purple med. grained massive Sandstone.	
0. 178 184 Med-coarse grained light grey/purple Sandstone+ clasts of milky white/grey quartz.	
1. 184 186 Coarse/med grained Sandstone. Light grey/purple.	
2. 186 188 Med/coarse grained light grey/purple Sandstone + pale green/purple fine grained laminated mudstone.	
3. 188 190 Pale green/purple fine grained laminated mudstone.	
1. 190 192 Pale/dark green+ purple fine grained laminated mudstone.	
5. 192 194 Pale green/purple fine grained laminated mudstone+ minor calcite veinlets.	
6. 194 196 Pale green/purple fine grained laminated mudstone.	
7. 196 197 Pale purple/green fine grained mudstone-dark green grey mudstone/HORMFELSED.	

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48.	197	198	Dark purple/green med. grained wthrd dolerite/ green alteration patches + calcite veinlets.)
49.	198	199	Dark green/black med. grained dolerite dolerite-fresher.
50.	199	200	Black med./coarse grained dolerite-relatively fresh/unaltered.
51.	200	208	Essentially homogeneous dolerite with minor variations in grain size (med-coarse grained) (occasionally very fine grained).
52.	208	212	Black med./coarse grained dolerite.

NB: For any enquiries, application, acquisition or verifications related to Water Boreholes, kindly contact the Department of Water and Sanitation for assistance.

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