

Borehole Information

Borehole Number:

105/21/X007DETAILED

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL78/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.963506 , 21.578153

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	6	Poor sample recovery. (Unconsolidated Sands).
2.	6	9	9m- Semi consolidated calcareous Sands.
3.	9	14	10m Clasts of calc Sandstone, mudstone, dolerite?, Silcrete- semi consolidated Sands.
4.	14	16	16m Pale cream med grained calc Sandstone + 1 single clast- 3mm of dolerite (not insitu!).
5.	16	17	17m Pale cream calcrete- lenses + horizons of Sandy + silty calcrete.
6.	17	18	18m Intertrigered pale cream Sandy + silty calcrete.
7.	18	21	21m Pale cream Sandy calcrete + fine grained buff/cream/grey (occasionally Sandy) Silcrete.
8.	21	22	22m- Sandy calcrete (or highly calcareous Sandstone) + Silcrete - Silcrete appears to be in the form of calcrete coated rounded nodules (up to seven diam).
9.	22	28	Essentially homogenous- amount + size of Silcrete nodules varies.
10.	28	30	30m- Pale cream Sandy calcrete (highly calcretised Sandstone!) + nodules of Silcrete- outside rim of nodules is dark grey becoming a buff colour towards the centre + including small black pebbles <1mm.
11.	30	32	31m- Pale cream Sandy calcrete- very little Silcrete.
12.	32	34	34m Pale cream- buff Sandy + silty calcrete.
13.	34	36	35m Sandy calcrete- calc Sandstone + large amounts of buff (mottled black) fine grained Silcrete. Silcrete appears as lenses or nodules/max sev cm diam) in calcrete.

Physical Address: Plot 11566, Khama 1 Avenue, Lobatse, Botswana

Postal Address: Private Bag 0014, Lobatse, Botswana

Telephone: +267 533 0327 / +267 533 0428 **Fax:** +267 533 4295

Email: info@bgi.org.bw **Website:** www.bgi.org.bw

Page Number: 1 | **Date/Time Stamp:** Fri, 18 Oct 24 05:58:38 +0200

Borehole Information

14.	36	44	Essentially as above- med grained highly calc Sandstone + Silcrete. Varies in degree of mottling in Silcrete.
15.	44	56	Amounts of Silcrete decreasing with depth- basically med grained pale cream/buff calcareous Sandstone + Silcrete (grainsize varies fine- med grained Silcretes).
16.	56	58	58m Pale cream med grained calc Sandstone containing cm scale lenses + nodules of fine grained Silcrete (buff/grey/brown).
17.	58	60	60m Pale cream med grained calcareous Sandstone containing cm scale lenses and nodules of fine grained buff/brown/grey/pink Silcrete.
18.	60	62	62m Pale cream/pink calcareous Sandstone- med grained.
19.	62	86	Essentially homogenous calcareous Sandstone- minor variations in 1) grainsize fine- med grained. 2) colour pale cream/ pale pink/ dark pink- occasionally pink mottling on pale cream. 3) degree of calcification.
20.	86	90	88m Pale pink med grained calcareous Sandstone.
21.	90	116	Homogenous calcareous Sandstone, variations in 1) colour- pale cream/buff/orange grey/pale pink/dark pink. 2) grain size fine- med grained. 3) degree of calcification- occasionally Silcretezd.
22.	116	120	118m Pale pink, med grained calcareous Sandstone.
23.	120	146	Homogenous calc Sandstone. Minor variations in 1) colour- buff/grey/pale pink/dark pink- occasionally mottled with pink/dark grey patches.2) degree of calcretisation.
24.	146	148	148m Buff/ light pink, med grained calcareous Sandstone.
25.	148	150	150m Buff/ pale pink , med grained calcareous Sandstone.
26.	150	156	Calcareous Sandstone, med grained, pale pink/buff/cream in colour.
27.	156	158	157m Buff/pink mottling med grained calcareous Sandstone.
28.	158	161	161m Fine grained, cream/buff mottled (pink/grey) calcareous Sandstone.
29.	161	162	162m Green grey mudstone ferruginous in places (pink staining) + med grained pink Sandstone.
30.	162	164	164m Green grey/purple ferruginous mudstones.
31.	164	166	165m Purple ferruginous mudstones + med/coarse grained purple grey crystalline rock with pale green irregular (
32.	166	167	167m Dark green/black- med grained dolerite + purple ferruginous mudstones + calcite veining. Altn patches evident.
33.	167	168	168m Dark green/black- med grained dolerite- some green alt patches evident but much less altered.
34.	168	170	170m Fresher dark green/black dolerite.
35.	170	186	Med/coarse grained green/black dolerite.
36.	186	188	188m Medium grained, green/black dolerite.

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

