

Borehole Information

Borehole Number:

105/21/X015/H1

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL78/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.968506 , 21.662878

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	1	Nodular calcrete - Topsoil/Sand (+ plant + insect debris!).
2.	0	62	Upper Kalahari: Fine Sand and interbedded calcrete. Calcrete massive, Sandy to silty.
3.	1	2	Nodular calcrete.
4.	2	4	Massive Sandy + silty calcrete.
5.	4	6	Pale cream/buff/brown Sandy + silty calcrete, some laminations visible in the finer grained calcrete.
6.	6	10	Calcretised Sand + Sandy + silty calcrete.
7.	10	13	Intercalation of coarse Sandy calcrete/pale pink calcretised Sands and finer grained/laminated silty calcrete.
8.	13	16	Finer grained silty calcrete - laminations visible.
9.	16	18	Cream coloured Sandy calcrete - lenses + vugs of finer grained buff coloured silty calcrete.
10.	18	21	Coarse Sandy calcrete/pale pink + cream calcretised Sands + finer grained laminated silty calcrete.
11.	21	24	Coarse Sandy calcrete + calcretised Sands + silty calcrete with small amounts of iron stained deep red fine grained Silcrete.
12.	24	30	Same as above-chips becoming finer grained + more platey-mostly Sandy calcrete. Iron staining evident, as mottled dark pink rounded patches in cream coloured Sandy calcrete.
13.	30	36	Cream coloured Sandy calcrete with irregular sub-rounded dark pink iron staining patches-finer grained calcrete + some qtz clasts/Silcrete also present.

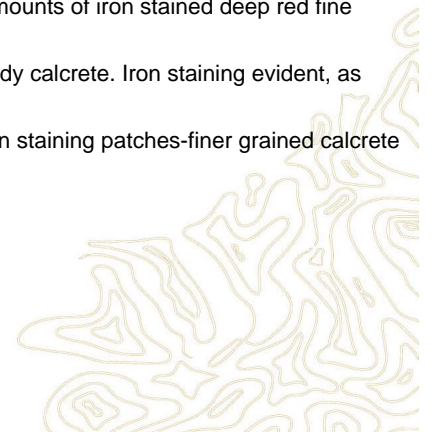
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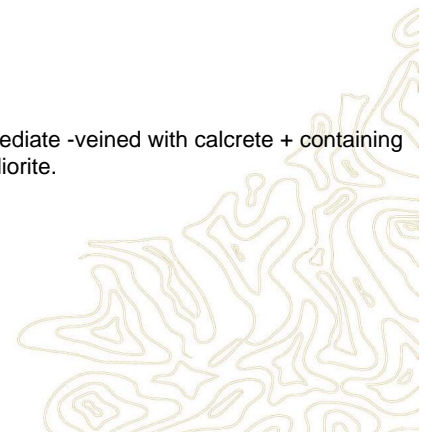
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14.	36	42	Cream coloured Sandy calcrete with irregular sub-rounded dark pink iron staining patches -finer grained calcrete + some qtz clasts/Silcrete also present. Minor variations in grain size. Degree of iron staining + amounts of Silcrete otherwise homogenous.
15.	42	48	Mottled (dark pink patches) cream coloured Sandy calcrete. Larger clasts appear Conglomerateitic, sub rounded dark pink (2-4mm) clasts set in a cream coloured, Sandy calcrete matrix. Some Silcrete present.
16.	48	62	Description too long to fit in SQL. Please refer to file
17.	62	66	Pale cream/buff Sandy calcrete/calcretised Sandstone. Some laminations visible in finer grained material.
18.	62	162	Lower Kalahari: Pale pink calcretized Sandstone.
19.	66	72	Pale pink/cream coloured calcretised Sandstone.
20.	72	74	Cream/buff med grained calcretised Sandstone.
21.	74	80	Cream/buff med grained calcretised Sandstone. Variations in colour cream/ pink/buff otherwise homogenous calcretised Sandstone.
22.	80	83	Finer grained cream/pink calcretised Sandstone.
23.	83	88	Med grained cream coloured calcretised Sandstone mottled with (
24.	88	92	Cream/buff fine grained calcretised Sandstone-pink iron staining patches occasionally visible.
25.	92	94	Cream/pink calc Sandstone.
26.	94	108	Cream/pink calc Sandstone. Homogenous calc Sandstone. Minor variations in colour (pink/cream/buff) and grain size med-fine grained.
27.	108	118	Cream/buff calcretised Sandstone.
28.	118	120	Cream coloured med grained calc Sandstone. Mottled with pink patches 2-4mm diam. (sub rounded).
29.	120	124	Pale pink calcretised Sandstone -med grained.
30.	124	128	Pale cream calcretised Sandstone -med grained.
31.	128	132	Pink calcretised Sandstone -med grained.
32.	132	142	Pink calcretised Sandstone-med grained. Minor variations (pale pink/cream/buff), otherwise homogenous med grained calcareous Sandstone.
33.	142	144	Pale pink/buff med grained calcretised Sandstone.
34.	144	150	Pale pink/cream med grained calcareous Sandstone.
35.	150	152	Medium grained pale pink calcareous Sandstone.
36.	152	160	Pale pink/buff med grained calcareous Sandstone with irregular (
37.	160	164	Pale pink calcareous Sandstone + cream coloured calc siltstone with dark pink alteration patches + qtz clasts.
38.	162	176	Pale pink calcareous Sandstones minor siltstone and calcrete.
39.	164	166	Dark pink/buff calcareous Sandstone -mottled + calcareous siltstone iron staining more evident.
40.	166	167	Mottled (dark pink patches
41.	167	169	Cream/pale pink med grained calc Sandstone + fine grained calc siltstone + Silcrete.
42.	169	170	Dark pink med grained calc Sandstone + pale cream mottled calc siltstone.
43.	170	171	Buff/pink coloured calc siltstone + Sandstone + qtz veining + Silcrete.
44.	171	172	Massive pink/buff coloured fine grained calc Sandstone + Silcrete.
45.	172	173	Massive buff/brown green very fine grained Sandstone/siltstone.
46.	173	175	Massive grey/brown Sandstone. Very fine grained.
47.	175	178	Med/ fine grained dark grey/green crystalline igneous rock. Mafic/intermediate -veined with calcrete + containing pale green irregular alteration patches -fine grained metadolerite/meta diorite.





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48.	176	178	Metadolerite- altered dolerite, calcite and epidote veined.
49.	178	179	Dark grey/green fine grained Sandstone.
50.	178	192	Fine to coarse grained grey to pink Sandstone and grits.
51.	179	180	Dark grey/brown fine grained Sandstone.
52.	180	181	Dark green/grey fine grained Sandstone + fine grained Silcrete.
53.	181	182	Dark green/grey medium grained Sandstone + pale pink/cream Sandy calcrete.
54.	182	184	Coarse grained pale pink/green-brown Sandstone/grits.
55.	184	186	Coarse grained pale pink/green-brown Sandstone/grits with milky white qtz veining.
56.	186	187	Med/coarse grained green/brown Sandstone + coarse pink grits + qtz veining.
57.	187	188	Med grained green/brown Sandstone.
58.	188	190	Med grained green/brown/pink Sandstone.
59.	190	192	Dark grey/green med grained Sandstone.
60.	192	196	Fine/med grained mafic igneous rock-crystalline + dark green/black in colour. Calcite veining evident-fine grained dolerite (or coarse grained bsit!) + occasional dark green alteration patches (<2mm).
61.	192	216	Medium to coarse grained dolerite, finer grained at upper contact. Occasional green patches.
62.	196	200	Description too long to fit in SQL. Please refer to file
63.	200	210	Fresh-med/coarse grained DOLERITE.
64.	210	214	Medium/coarse grained fresh dolerite.
65.	214	216	Med/coarse dolerite.

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

