

Borehole Information

Borehole Number:

105/21/X006/H1

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL78/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.969339 , 21.514262

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	18	Poor chip recovery. Mainly red Sands unconsolidated.
2.	18	20	19m- Red/orange limonitic calcretised Sands + some Silcrete.
3.	20	30	Occasionally dust/buff brown competent calc Sandstone- medium grained.
4.	30	50	Competent moderately well sorted light buff brown- pink medium grained calcareous Sandstone.
5.	50	54	52m- Off white/grey calc Sandstone as above with sugary texture.
6.	54	60	55m- Medium brown/grey calc Sandstone as above with sugary texture.
7.	60	64	Orange pink- occasionally grey medium grained moderately well sorted competent calc Sandstone.
8.	64	70	Becomes lighter orange/pink.
9.	70	73	73m- Becomes dark red/brown (iron rich).
10.	73	78	74m- Orange- buff/ pink- grey.
11.	78	86	80- Light buff to light grey homogenous (sugary texture) moderately well sorted medium grained competent calcareous Sandstone.
12.	86	90	88- Becomes light pink.
13.	90	96	Medium pink- mottled off white calc Sandstone as above.
14.	96	100	98m- Becoming darker pink- still mottled.

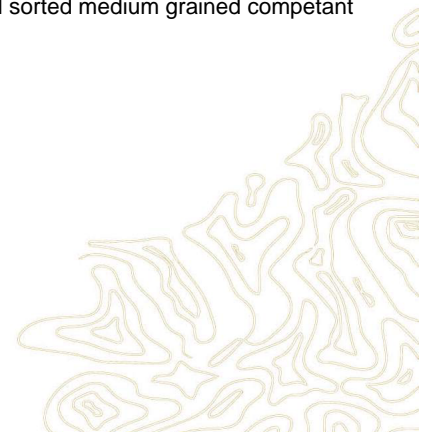
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15.	100	104	102- Dark pink.
16.	104	114	106- Becomes light pink again- to off white light grey pink by 106. Frequently speckled with black flecks.
17.	114	124	116- Off white to medium pink- otherwise very homogenous as above. Calc Sandstone.
18.	124	128	126- Off white- medium pink calc Sandstone. As above.
19.	128	140	131- Pink. Homogenous medium grained well sorted calc Sandstone- competent.
20.	140	150	131- Light grey. Homogenous medium grained well sorted calc Sandstone- competent.
21.	150	155	153 Becomes fine grained occasionally silty fine grained light/med grey calc Sandstone.
22.	155	156	155 Light grey occasionally silty mudstone.
23.	156	160	157 Becomes light grey/pink fine grained well- mod well sorted Sandstone.
24.	160	168	161- Various colours- grey/pink/orange- poorly sorted gritty Sandstone- becoming less coarse to fine Sandstone/siltstone by 162.
25.	168	170	170- Medium- pink grey coarse grained competent slightly wthrd Sandstone.
26.	170	174	171- Sandstone plus green grey very fine grained dolerite (TARGET) with some hornfelsic rocks- Sandstone/dol. Some fracturing and veining qtz/calcite.
27.	174	182	177- Becoming fresh- coarse grained dolerite (target lithology).
28.	182	212	Coarse grained dark grey green/black dolerite- ophinitic texture visible (Target lithology).
29.	212	218	215m- Fine grained green dolerite- appears like hornfels spotted- with light grey/ off white fine- medium Sandstone. WATER STRIKE 216- Sandstone aquifer- as above. (in excess +12, 000 gph). Drillers est.
30.	218	220	219m- Medium grained grain supported Sandstone with massie milky quartz and sub- well rounded qtz gravel and pebbles- 50%.
31.	220	222	222m- Qtz gravel/pebbles dominant.
32.	222	224	223m- All loose well- sub rounded qtz gravel + pebbles.
33.	224	228	226m- Milky quartz- becomes pinked.
34.	228	238	229m- Light- medium grey Sandy siltstone. Occasionally brown.
35.	238	242	240m- Becoming slightly darker grey dirty, silty mudstone.
36.	242	244	244m- Pink mudstone with some buff coloured fine- medium Sandstone.
37.	244	252	245m- Dominantly off white- grey fine- med well sorted Sandstone (W= water strike).
38.	252	254	254m- White- off white fine- medium grained mod sorted Sandstone.
39.	254	258	255m- Becoming laminated and very micaceous.
40.	258	260	260m- Sandstone grades into dark grey silty laminated mudstone.
41.	260	266	262- Muddy siltstone, grey.
42.	266	270	268. Dark grey/black clean mudstone with vitrous black Coal fragments.
43.	270	280	272. Fine-medium grained massive Sandstone pyritic and very micaceous (not laminated).
44.	280	282	281m- Sandstone grades into grey/dark grey micaceous siltstone and mudstones.
45.	282	288	Intercalating siltstones and mudstones.
46.	288	290	T.D 290- Grey micaceous mudstone.

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

