

Borehole Information

Borehole Number: 105/21/X006/H1

Prospecting Company: De Beers Prospecting Botswana (Pty) Ltd Prospecting License No.: PL78/88 Coordinates Type: WGS 84 Coordinates Format: Decimal Degrees Coordinates: -22.969339, 21.514262 Location: Bere

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

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	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 competant 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 competant 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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5.	100	104	102- Dark pink.
6.	104	114	106- Becomes light pink again- to off white light grey pink by 106. Frequently speckled with black flecks.
7.	114	124	116- Off white to medium pink- otherwise very homogenous as above. Calc Sandstone.
8.	124	128	126- Off white- medium pink calc Sandstone. As above.
9.	128	140	131- Pink. Homogenous medium grained well sorted calc Sandstone- competant.
0.	140	150	131- Light grey. Homogenous medium grained well sorted calc Sandstone- competant.
1.	150	155	153 Becomes fine grained occasionally silty fine grained light/med grey calc Sandstone.
2.	155	156	155 Light grey occasionally silty mudstone.
3.	156	160	157 Becomes light grey/pink fine grained well- mod well sorted Sandstone.
4.	160	168	161- Various colours- grey/pink/orange- poorly sorted gritty Sandstone- becoming less coarse to fine Sandstone/siltstone by 162.
5.	168	170	170- Medium- pink grey coarse grained competant slightly wthrd Sandstone.
6.	170	174	171- Sandstone plus green grey very fine grained dolerite (TARGET) with some hornfelsic rocks- Sandstone/d Some fracturing and veining qtz/calcite.
7.	174	182	177- Becoming fresh- coarse grained dolerite (target lithology).
8.	182	212	Coarse grained dark grey green/black dolerite- ophinitic texture visible (Target lithology).
9.	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.
0.	218	220	219m- Medium grained grain supported Sandstone with massie milky quartz and sub- well rounded qtz gravel and pebbles- 50%.
1.	220	222	222m- Qtz gravel/pebbles dominant.
2.	222	224	223m- All loose well- sub rounded qtz gravel + pebbles.
3.	224	228	226m- Milky quartz- becomes pinked.
4.	228	238	229m- Light- medium grey Sandy siltstone. Occasionally brown.
5.	238	242	240m- Becoming slightly darker grey dirty, silty mudstone.
6.	242	244	244m- Pink mudstone with some buff coloured fine- medium Sandstone.
7.	244	252	245m- Dominantly off white- grey fine- med well sorted Sandstone (W= water strike).
8.	252	254	254m- White- off white fine- medium grained mod sorted Sandstone.
9.	254	258	255m- Becoming laminated and very micaceous.
0.	258	260	260m- Sandstone grades into dark grey silty laminated mudstone.
1.	260	266	262- Muddy siltstone, grey.
2.	266	270	268. Dark grey/black clean mudstone with vitrous black Coal fragments.
3.	270	280	272. Fine-medium grained massive Sandstone pyritic and very micaceous (not laminated).
4.	280	282	281m- Sandstone grades into grey/dark grey micaceous siltstone and mudstones.
5.	282	288	Intercalating siltstones and mudstones.
6.	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.

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