

BMC Minerals (No. 1) Ltd.

Borehole No: WW15-02

Project: KZK Hydrogeological Assessment

Project No: ENVMIN03071-01

Location: Kudz Ze Kayah

Yukon

UTM: 414843 E; 6815770 N; Z 9

Depth (m) ▼	Method	Soil Description	Notes and Comments	Depth (ft) ▼
0			<p>Top of steel casing 0.84 m Top of PVC 0.76 m Bentonite grout surface seal 205 m ID steel casing (-0.94-3.4m) 2.60 m</p>	0
1	Tricone	SAND AND SILT - some gravel, completely weathered schist, poorly graded, dry, loose, brown		2
2				4
3		SCHIST - highly weathered, dry, weak, light brown, iron staining in fractures		6
4		- light brown to grey		8
5		- soft, light brown		10
6				12
7				14
8		- some quartz, slightly weathered, light grey		16
9				18
10				20
11				22
12	DHH			24
13				26
14				28
15				30
16				32
17				34
18				36
19				38
20				40
21				42
22				44
23				46
24				48
25				50
26				52
27				54
28				56
29				58
30				60
31				62
32				64
33				66
34				68
35				70
36				72
37				74
38				76
39				78
40				80
41				82
42				84
43				86
44				88
45				90
46				92
47				94
48				96
49				98
50				100
51				102
52				104
53				106
54				108
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81				162
82				164
83				166
84				168
85				170
86				172
87				174
88				176
89				178
90				180
91				182
92				184
93				186
94				188
95				190
96				192
97				194
98				196
99				198
100				200

- water observed flowing into borehole (@~0.3 L/s) following removal of drill rods

Solid casing, schedule 40 PVC 152mm OD, 133mm ID



Contractor: Midnight Sun Drilling	Completion Depth: 38.1 m
Drilling Rig Type: Air Rotary	Start Date: 2015 July 30
Logged By: [Redacted]	Completion Date: 2015 July 30
Reviewed By: [Redacted]	Page 1 of 2

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Depth (m)	Method	Soil Description	Notes and Comments	WW15-02	Depth (ft)
20					66
21		- damp, grey			68
22					70
23					72
24		- water in returns			74
25					76
26		- fresh, dark grey			78
27					80
28					82
29	DHH				84
30					86
31					88
32					90
33					92
34					94
35					96
36					98
37					100
38					102
39					104
40					106
					108
					110
					112
					114
					116
					118
					120
					122
					124
					126
					128
					130
		END OF BOREHOLE (38.10 metres) water - 0.84 metres above ground on October 3, 2015 PVC liner installed from 0.76 to 3.81 metres Note: Open hole from 3.4 to 38.1 metres			

← 22.90 m

Screen, 20 slot, schedule 40 PVC, 152mm OD, 133mm ID

← 35.00 m

Solid casing, schedule 40 PVC 152mm OD, 133mm ID

← 38.10 m



Contractor: Midnight Sun Drilling

Completion Depth: 38.1 m

Drilling Rig Type: Air Rotary

Start Date: 2015 July 30

Logged By: [Redacted]

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Reviewed By: [Redacted]

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Site: Kudz Ze Kyah
Job No.: ENVMIN03071
Well ID: WW15-02
Date: 30-Jul-15
Development Method: Jetting and air lifting

Development Record

Date	Time	Time Spent Developing (min)	Estimated Purge Rate During Development (US GPM)	Total Volume Purged During Development (gal)	Total Volume Purged During Development (L)	Turbidity (estimated tablespoons sand in 5 gal pail)	Notes
30 July, 2015	16:35	0	25	0	0	-	commence development
	16:36	1	25	25	95	4	
	16:42	7	25	175	662	1	
	16:51	16	25	400	1514	0.3	
	17:00	25	25	625	2366	0.3	
	17:10	35	25	875	3312	0.3	cease development, turbidity below desired 0.5 tablespoons for approx 20 min

Notes: Did not surge during development as driller worried about pressure blowing water to surface outside of the casing.