

## Geological Log - Lagoon Creek Resources

<b>Project Location</b>	<b>El Hussen</b>	<b>Hole Number</b>	<b>EH-5</b>
<b>Pad /Number</b>	<b>P2</b>		
		<b>RL</b>	
<b>AGD84 X</b>	0802428	<b>(Elevation)/m</b>	200
<b>AGD84 Y</b>	8059648	<b>Dip</b>	40
<b>Start Date</b>	29/07/2007	<b>Azimuth True</b>	61
		<b>Magnetic</b>	
<b>Finish Date</b>	31/07/2007	<b>Declination</b>	6
<b>Logged by</b>			
<b>Checked by</b>	W.D.Smith	<b>Final Depth/m</b>	200
<b>Drilled by</b>	Tom Browne Drilling Company		

**Down Hole Gamma Survey**          No

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<b>Down Hole Survey</b>	Yes		
Survey at/m	Azimuth true	Dip	
100	64	40	
200	64.5	40	

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<b>Major Boundaries</b>		<b>Spectrometer Highs</b>	
Unit	Depth/m	Depth/m	ppm
Ptw	54.6	42	14
Stc	56.6		
Ptw	EOH		

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Core Size	From	To	Interval	Recovery	Code	Lithology - rock type, components, colour, grain size	Core Bedding Angle	Core Fracture Angle	Weathering	Spectrometer reading/ppm	Comments
HQ	0	5.5	5.5	80-100	Pts	Volcanic			SOSL	<30	Broken core
	5.5	7.5	2	100	Pts	Volcanic		20-90	SOSL	<30	Red oxidised core
	7.5	14.5	7	100	Pts	Volcanic			SOSL	<30	Highly fractured/broken core
	14.5	21.5	7	100	Pts	Volcanic		10-70	SOSL	<30	Some qtz fill on fractures
	21.5	23.7	2.2	100	Pts	Volcanic		30-45	MOML	<30	Some qtz fill on fractures
NQ	23.7	29.2	5.5	90-100	Pts	Volcanic			SOSL	<30	Highly broken core
	29.2	37.5	8.3	93-100	Pts	Volcanic		45-90	MOWL	<30	Amygdaloidal basalt
	37.5	39.7	2.2	100	Pts	Volcanic		0-90	WOWL	<30	Oxidation and leaching on fractures. Patches of broken core.
	39.7	50.9	11.2	100	Pts	Volcanic		45-80	WOWL	<30	Silica on fractures
	50.9	54.6	3.7	97-100	Pts	Volcanic		45-80	ML	<30	Reduced, green colour but with red oxidation patches on fractures. Chlorite?
	54.6	56.6	2	100	Stc	Altered siltstone		45-80	SOSL	<30	Possibly some amygdales but rock highly altered
	56.6	74	17.4	100	Ptw	Sandstone	80	30-80	WOWL	<30	Chloritised sst in upper 20cm. Thin silt band at 61m (3cm width)
	74	83.5	9.5	100	Ptw	Sandstone		0-90	EF	<30	Silicification apparent. Oxidised on fractures
	83.5	107.5	24	100	Ptw	Sandstone		45-90	EF	<30	Less silicified than above
	107.5	115	7.5	100	Ptw	Sandstone		0-90	WOML	<30	Highly fractured rock. Fault? strongly leached in places
	115	120	5	100	Ptw	Sandstone		0-90	WOWL	<30	More solid core, reduction on fractures. and some leaching
	120	121.5	1.5	100	Ptw	Sandstone		30-90	MOML	<30	Highly fractured, leaching on fractures.
	121.5	138.5	17	100	Ptw	Sandstone	70-80	0-90	EF	<30	Blotchy sst. Some minor leaching on fracture planes.
	138.5	162	23.5	100	Ptw	Sandstone	80	0-90	EF	<30	Coarser sst, increased inclusions. Some leaching on fractures
	162	164.5	2.5	100	Ptw	Sandstone		0-90	EF	<30	Broken core present
	164.5	185	20.5	97-100	Ptw	Sandstone	80	10-80	EF	<30	Blotchy Red/yellow
	185	200	15	57-100	Ptw	Sandstone		0-90	MOML	<30	Highly fractured at base, more fractured than above
		EOH									

**CODE FOR UNITS**

PTS = Siegal Volcanics  
 STC = Siltstone Contact  
 PTW = Westmoreland Conglomerate

**CODE FOR WEATHERING**

S/M/W O = Strong/Medium/Weak Oxidation  
 S/M/W L = Strong/Medium/Weak Leaching  
 EF = Essentially Fresh - fresh except for secondary minerals in fractures  
 F = Fresh - no secondary minerals in fractures

From	To	Theoretical recovery (m)	Actual recovery (m)	%
0	2.5	2.5	2	80
2.5	5.5	3	3	100
5.5	8.5	3	3	100
8.5	11.5	3	3	100
11.5	14.5	3	3	100
14.5	17.5	3	3	100
17.5	20.5	3	3	100
20.5	23.5	3	3	100
23.5	24.2	0.7	0.7	100
24.2	26.5	2.3	2.3	100
26.5	29.5	3	2.7	90
29.5	32.5	3	3	100
32.5	35.5	3	3	100
35.5	38.5	3	2.8	93
38.5	41.5	3	3	100
41.5	44.5	3	3	100
44.5	47.5	3	3	100
47.5	50.5	3	3	100
50.5	53.5	3	3	100
53.5	56.5	3	2.9	97
56.5	59.5	3	3	100
59.5	62.5	3	3	100
62.5	65.5	3	3	100
65.5	68.5	3	3	100
68.5	71.5	3	3	100
71.5	74.5	3	3	100
74.5	77.5	3	3	100
77.5	80.5	3	3	100
80.5	83.5	3	3	100
83.5	86.5	3	3	100
86.5	89.5	3	3	100
89.5	92.5	3	3	100
92.5	95.5	3	3	100
95.5	98.5	3	3	100
98.5	101.5	3	3	100
101.5	104.5	3	3	100
104.5	107.5	3	3	100
107.5	110.5	3	3	100
110.5	113.5	3	3	100
113.5	116.5	3	3	100
116.5	119.5	3	3	100
119.5	122.5	3	3	100
122.5	125.5	3	3	100
125.5	128.5	3	3	100
128.5	131.5	3	3	100
131.5	134.5	3	3	100
134.5	137.5	3	3	100
137.5	140.5	3	3	100
140.5	143.5	3	3	100
143.5	146.5	3	3	100
146.5	149.5	3	3	100
149.5	152.5	3	3	100
152.5	155.5	3	3	100
155.5	158.5	3	3	100
158.5	161.5	3	3	100
161.5	164.5	3	3	100
164.5	167.5	3	2.9	97
167.5	170.5	3	3	100
170.5	173.5	3	3	100
173.5	176.5	3	3	100
176.5	179.5	3	3	100
179.5	182.5	3	3	100
182.5	185.5	3	3	100
185.5	188.5	3	2.7	90
188.5	191.5	3	3	100
191.5	194.5	3	3	100
194.5	197.5	3	3	100
197.5	200.5	3	1.7	57

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	2.5	3.8	7.9	1000.6
2	5.5	3.3	6.9	995.7
3	8.3	3.8	7.8	1006.7
4	11.5	3	8.2	1003.9
5	14.5	3.8	8.1	1004.3
6	17.5	3.3	5.7	1001.1
7	20.5	4.8	7.3	1004
8	23.7	3.7	6.2	993.5
9	26	4.3	9.1	999.7
10	32	5.2	7.5	1004.8
11	Not used			
12	38	7.7	8.4	1024.8
13	41	13.3	5.4	1003.1
13	42	14	9	1093.3
14	47	5.7	10.7	1002.1
15	50	4.2	7.8	992.3
16	56	4.7	9	1008.8
17	59	4.1	7.9	998.3
18	65	2.5	8.2	982.1
19	71	2.8	7	989.1
20	74	2	7.7	989.9
21	80	2.7	7.5	988.6
22	83	2.9	7.4	984.9
23	89	2.9	7.3	1000.4
24	95	3	7.8	985.5
25	98	2.9	8.5	989.9
26	104	3.1	7.4	986
27	107	2.9	8.9	988.1
28	113	1.7	9.3	984
29	116	1.7	7.9	994.7
30	122	2.2	8.2	986.3
31	125	2.5	6.8	989.6
32	131	1.3	7.6	999.3
33	134	2.3	10.2	992.3
34	140	1.9	8.4	989.4
35	147	2.5	8.7	993.7
36	150	2.8	9.9	993
37	156	2.4	8.1	992.5
38	159	3	6.6	992.2
39	161	2.1	6.9	990
40	168	2.6	6.5	992.9
41	174	2.8	8.8	984.2
42	177	4.3	7.9	986.6
43	183	2.3	7.7	992.8
44	189	2.9	7.3	995.8
45	192	2.2	8.5	995
46	198	2.3	8.3	989.4
47	200	2.4	7.7	997.1