

Geological Log - Lagoon Creek Resources

Project Location	El Hussen	Hole Number	EH-3
Pad /Number	P8		
AGD84 X	0802371	RL (Elevation)	187
AGD84 Y	8059528	Dip	45
Start Date	26/07/2007	Azimuth True	60
Finish Date	28/07/2007	Magnetic	
Logged by		Declination	6
Checked by	W.D. Smith		
Drilled by	Tom Browne Drilling Company	Final Depth/m	151.6

Down Hole Gamma Survey No

Down Hole Survey	Yes		
Survey at	Azimuth true	Dip	
100	59	45	
150	54	45	

Major Boundaries		Spectrometer Highlights	
Unit	Depth/m	Depth/m	ppm
Pts	59.1	59.5	23
Stc	61		
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	4.5	4.5	52-72	Pts				SOSL	<30	Highly oxidised brittle and fractured soil
	4.5	6.7	2.2	100	Pts			45-90	MOSL	<30	Highly fractured and broken amygdaloidal volcanics
	6.7	13	6.3	100	Pts	Volcanics		45-90	MOML	<30	Fractured amygdaloidal Volcanics
	13	14.8	1.8	100	Pts			10-90	WOML	<30	Volcanics weakly chloritised in places, some silica fill of fractures, less amygdaloidal than above
NQ	14.8	23.5	8.7	100	Pts	Volcanics		30-90	MOWL	<30	Weakly fractured
	23.5	28.6	5.1	100	Pts	Volcanics		30-80	WOML	<30	Moderately fractured with leaching on fracture surfaces, clay alteration, some silica fill
	28.6	38.4	9.8	100	Pts	Volcanics		50-90	MOML	<30	Hematite and chloritic replacement of amygdaloids
	38.4	55.9	17.5	100	Pts			30-90	WOWL	<30	Amygdaloidal volcanics with zones of moderate oxidation and leaching from 44-46m and broken core. Less amygdaloids toward the base. Weakly chloritic in places
	55.9	59.1	3.2	100	Pts	Volcanics		50-90	MOSL	<30	Small patches of strong oxidation. Weak chloritisation
	59.1	61	1.9	100	Stc	Altered siltstone		70-90	SOSL	<30	Highly fractured , high clay content. Variable colour from light green to deep red
	61	136	75	100	Ptw	Sandstone	80	0-90	WOWL	<30	Upper 50cm highly chloritised. Blotchy sandstone. Increased leaching from 118m on fractures
	136	140	4	100	Ptw	Sandstone	70	45-90	WOML	<30	Broken core in places. Increased fracturing, leaching on some fracture surfaces
	140	141.5	1.5	100	Ptw	Sandstone conglomerate		50-90	WOWL	<30	Pebbly conglomerate clast supported in places
	141.5	142.6	1.1	100	Ptw	Sandstone		0-90	SOSL	<30	Broken core, highly leached
	142.5	151.6	9.1	100	Ptw	Sandstone		45-80	WOWL	<30	Very coarse/granular sst. Moderately oxidised and leached on some fractures
		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	1.8	1.8	1.3	72
1.8	4.5	2.7	1.4	52
4.5	6.2	1.7	1.7	100
6.2	7.8	1.6	1.6	100
7.8	10.8	3	3	100
10.8	13.8	3	3	100
13.8	14.8	1	1	100
14.8	16.6	1.8	1.8	100
16.6	19.3	2.7	2.7	100
19.3	22.3	3	3	100
22.3	25.6	3.3	3.3	100
25.6	28.6	3	3	100
28.6	31.6	3	3	100
31.6	34.6	3	3	100
34.6	37.6	3	3	100
37.6	40.6	3	3	100
40.6	43.6	3	3	100
43.6	46.6	3	3	100
46.6	49.6	3	3	100
49.6	52.6	3	3	100
52.6	55.6	3	3	100
55.6	58.6	3	2.9	97
58.6	61.6	3	3	100
61.6	64.6	3	3	100
64.6	67.6	3	3	100
67.6	70.6	3	3	100
70.6	73.6	3	3	100
73.6	76.6	3	3	100
76.6	79.6	3	3	100
79.6	82.6	3	3	100
82.6	85.6	3	3	100
85.6	88.6	3	3	100
88.6	91.6	3	3	100
91.6	94.6	3	3	100
94.6	97.6	3	3	100
97.6	100.6	3	3	100
100.6	103.6	3	3	100
103.6	106.6	3	3	100
106.6	109.6	3	3	100
109.6	112.6	3	3	100
112.6	115.6	3	3	100
115.6	118.6	3	3	100
118.6	121.6	3	3	100
121.6	124.6	3	3	100
124.6	127.6	3	3	100
127.6	130.6	3	3	100
130.6	133.6	3	3	100
133.6	136.6	3	3	100
136.6	139.6	3	2.9	97
139.6	142.6	3	3	100
142.6	145.6	3	3	100
145.6	148.6	3	3	100
148.6	151.6	3	3	100

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.6	6.9	4.9	1001.4
2	6.8	5.6	9.3	1011.8
3	9.4	5.1	6	990
4	12.9	5.8	8.3	1006.7
5	17.3	3.1	7.1	1002
6	21.9	3.4	11.3	1001.4
7	26.3	3.7	8	1002.9
8	30.4	3.6	10.4	1003.4
9	35	4.9	6	988.4
10	39.7	4.2	8.4	1005.3
11	44.1	4.6	6.1	1018
12	48.8	4.3	10.8	1008
13	53.4	3.8	8.9	1020
13	55.3	4.4	10.3	1000.3
14	56.2	8.7	6.7	1023.2
14	57.2	7.4	10.1	1009.6
14	58.3	15.9	7.1	1036.6
14	59.3	23	7.5	1071.1
14	60.3	17	8.4	1051
15	61.3	9.7	9	1013.3
15	62.3	5.5	11.6	1006.4
15	62.9	5.9	5.9	1001.4
16	67.6	3.5	7.5	999.6
17	72.4	3	9	996.4
18	77	2.6	8.5	1007.3
19	81.2	4.7	5.5	1013
20	86.4	3.1	11.8	1002.2
21	91.3	13.2	6.6	998.2
22	96	3.8	7.5	994.7
23	100.7	2.7	9.5	994.4
24	105.6	3.2	8	998.8
25	110.3	6.8	6.8	987.2
26	115.2	1.6	8.2	999.7
27	119.7	0.4	10.1	999.2
28	124.3	1.4	11	991.5
29	129.1	1.7	10.5	993.8
30	133.7	2.6	10	985
31	138.6	2.5	9	1015
32	142.8	1.6	11	1004.1
33	147.4	1.2	17.2	988.5
34	151.5	5.1	9.3	981.4