

Geological Log - Lagoon Creek Resources

Project Location	El Hussen	Hole Number	EH-8
Pad /Number	P7		
AGD84 X	0802506	RL (Elevation)/m	240
AGD84 Y	8059597	Dip	55
Start Date	8/03/2007	Azimuth True	240
Finish Date	8/04/2007	Magnetic	
Logged by		Declination	6
Checked by	W.D. Smith	Final Depth/m	178.6
Drilled by	Tom Browne Drilling Company		

Down Hole Gamma Survey No

Down Hole Survey	Yes	
Survey at/m	Azimuth true	Dip
121.6	Interference	54

Major Boundaries		Spectrometer Highs	
Unit	Depth/m	Depth/m	ppm
Pts	47.8	38.1	29.5
Ptw	EOH	39.1	37
		40.5	54.8
		41	63.3
		42	53
		44.2	25.6
		45	23.7
		46.5	23.8

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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	4.4	4.4	39-83	Pts	Volcanics		<30	SOML	<30	Rubbly
	4.4	11	6.6	98-100	Pts	Volcanics		50-70	SOML	<30	Amygdaloidal
	11	11.6	0.6	100	Pts	Volcanics - altered		0-90	MOSL	<30	Highly altered, rubbly
	11.6	14.8	3.2	100	Pts	Volcanics		0-90	MOSL	<30	Amygdaloidal
NQ	14.8	19.6	4.8	100	Pts	Volcanics			MOSL	<30	Highly altered, rubbly
	15	28.6	13.6	97-100	Pts	Volcanics		10-80	MOWL	<30	Heavily fractured, at 14.8-19.8 and 25.6-27.1m
	28.6	31	2.4		Pts	Volcanics		50-70	MOSL	<30	Altered green
	31	42.2	11.2	77-100	Stc	Volcanics/Siltstone contact, some amygdales visible		0-80	MOSL	32.9ppm@38.5m 55.7ppm@40.5m 43.5ppm@41.5m 36ppm@42m	Highly leached and oxidised in places. Zones of increased fracturing. Zones of purple-black colouration associated with scintillometer highs. Amygdaloidal in places
	42.2	47.8	5.6	67-100	Stc	Volcanics/Siltstone contact		30-70	MOSL	47.5ppm@42.5m 34ppm@43m	Heavily fractured/broken, rubbly
	47.8	50.5	2.7	87	Ptw	Fine sandstone, hematised		50-70	MOML	<30	Highly altered with strongly leached lens at 50.4
	50.5	72.3	21.8	100	Ptw	Fine sandstone	50-60	40-80	WOWL	<30	Moderately leached at 60.6
	72.3	101.1	28.8	100	Ptw	Fine sandstone	40-60	~70	EF	<30	Interbedded with thick dark and light bands, competent with few fractures
	101.1	110	8.9	100	Ptw	Fine sandstone	50-60	50-70	EF	<30	Bedded, some blotchy colour
	110	136.7	26.7	100	Ptw	Medium sand, occasional quartz pebbles <30 mm		40-80	EF	<30	Massive, some blotches, weakly leached at 132, strongly oxidized lens at 135.7
	136.7	152	15.3	100	Ptw	Medium sand, occasional quartz pebbles <30 mm, bedding more pronounced	40-50	40-50	EF	<30	Well bedded, coarser, blotchy
	152	178.6	26.6	100	Ptw	Course/gravel sandstone		~70	EF	<30	Coarse, massive conglomerate, competent, pebbles up to ~5cm
		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	0.7	39
1.8	4.8	3	2.5	83
4.8	7.8	3	2.95	98
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	19.6	3	2.9	97
19.6	22.6	3	3	100
22.6	25.6	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	2.3	77
43.6	46.6	3	2	67
46.6	49.6	3	3	100
49.6	52.6	3	2.6	87
52.6	55.6	3	3	100
55.6	58.6	3	3	100
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	3	100
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
151.6	154.6	3	3	100
154.6	157.6	3	3	100

157.6	160.6	3	3	100
160.6	163.6	3	3	100
163.6	166.6	3	3	100
166.6	169.6	3	3	100
169.6	172.6	3	3	100
172.6	175.6	3	3	100
175.6	178.6	3	3	100

SAMPLE	Hole	From	To	Ag ppm	ME-ICP615				
					Al %	As ppm	Ba ppm	Be ppm	
R013	EH8	36.25	36.75	<0.5		7.5	<5	130	5
R014	EH8	36.75	37.25	<0.5		6.06	5	100	3.5
R015	EH8	37.25	37.75	<0.5		8.09	5	70	4.3
R016	EH8	37.75	38.25	<0.5		7.87	6	60	3.5
R017	EH8	38.25	38.75	<0.5		7.41	6	60	4.2
R167	EH8	38.75	39.25			<5			
R168	EH8	39.25	39.75			<5			
R018	EH8	39.75	40.25	<0.5		9.25	6	130	13.4
R019	EH8	40.25	40.75		3.7	9.51	189	120	14.3
R020	EH8	40.75	41.25		0.7	10.1	76	150	18.6
R021	EH8	41.25	41.75	<0.5		9.82	12	100	11.2
R022	EH8	41.75	42.25	<0.5		8.07	6	80	5.6
R023	EH8	42.25	42.75	<0.5		7.69	5	60	4.6
R024	EH8	42.75	43.25	<0.5		7.74	5	60	4.6
R025	EH8	43.25	43.75	<0.5		8.33	<5	80	4.8
R026	EH8	43.75	44.25	<0.5		8.5	16	90	5.1

ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615
Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	
ppm	%	ppm	ppm	ppm	ppm	%	%	%	
<2		0.42	<0.5	16	217	8	9.97	3.27	1.53
	3	0.44	<0.5	22	173	17	9.98	2.38	1.5
	4	0.42	<0.5	36	228	8	14	3.04	2.22
<2		0.22	<0.5	64	254	9	6.31	2.26	2.45
<2		0.51	<0.5	26	234	8	13.95	2.91	1.84
						8			
						9			
	3	0.31	<0.5	24	304	10	9.7	3.96	1.67
	15	0.4	<0.5	88	330	16	9.3	3.9	2.15
	9	0.45	<0.5	59	373	26	11	4.12	2.26
	3	0.4	<0.5	49	319	7	11.35	3.54	2.56
	2	0.34	<0.5	92	276	5	10.1	2.38	3.19
	2	0.36	<0.5	59	251	6	10.35	2.64	2.16
	4	0.38	<0.5	31	251	6	8.99	3.17	1.56
<2		0.26	<0.5	33	230	9	2.76	3.64	1.72
<2		0.25	<0.5	88	273	7	5.86	3.42	2.15

ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε
Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr
ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
1585	<1	0.02	52	1110	12	0.02	<5	5
2200	<1	0.01	60	940	7	0.01	<5	6
1780	<1	0.01	108	1030	14	0.01	<5	4
275	<1	0.01	152	790	6	0.02	<5	4
3080	<1	0.01	95	770	5	0.02	<5	1
<1								
<1								
351	<1	0.03	96	1160	39	0.01	<5	23
1030	<1	0.03	169	1340	43	0.06	<5	22
1000	<1	0.03	157	1520	72	0.06	<5	12
1445	<1	0.02	158	1140	34	0.05	<5	9
1460	<1	0.02	227	1120	14	0.08	<5	3
1955	<1	0.01	117	840	5	0.02	<5	1
2020	<1	0.01	69	880	4	0.02	<5	3
120	<1	0.02	91	1020	92	0.02	<5	5
216	<1	0.01	232	950	23	0.42	<5	4

ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-ICP61ε	ME-MS61	PGM-MS2ε	PGM-MS2ε	PGM-MS2ε	
Ti	V	W	Zn	Se	Au	Pt	Pd	La	
%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
0.96	449	<10		16	2	0.003	0.0095	0.014	22.6
0.76	349		10	21	2	0.004	0.0079	0.012	14.7
0.98	543		10	34	2	0.004	0.0094	0.015	17.2
1.01	263	<10		74	2	0.004	0.0102	0.013	8.6
0.98	388	<10		25	2	0.004	0.0107	0.016	11.6
	1950					0.002	0.0088	0.017	
	1710					0.003	0.0088	0.014	
1.2	1900		10	29	3	0.004	0.0105	0.022	48.9
1.29	1700		10	45	5	0.002	0.0049	0.007	27.1
1.43	2230		10	53	4	0.005	0.011	0.016	20.2
1.26	1480		10	32	2	0.002	0.0102	0.017	26.2
1.21	676		10	62	2	0.003	0.0087	0.014	9.4
0.99	367	<10		42	2	0.01	0.0074	0.011	20.6
1.03	330	<10		21	2	0.007	0.0077	0.012	33.2
1.15	330	<10		24	3	0.004	0.0089	0.013	33.5
1.08	331	<10		20	2	0.006	0.0086	0.012	31.7

ME-MS61 Th ppm	ME-MS61 Ti ppm	ME-MS61 U ppm	ME-MS61 U3O8 ppm
9.2	0.86	39	45.99036
7.4	0.65	29.5	34.78758
8.9	0.79	36.2	42.68849
8.7	0.53	31.5	37.14606
8.8	0.58	70.4	83.0185
8.8		100.5	118.5136
10.7		150.5	177.4756
11.3	1.17	122	143.8673
8.4	1.29	228	268.8667
10.2	1.29	276	325.4702
11.6	1.03	188.5	222.2867
7.4	0.55	157.5	185.7303
9.4	0.56	102	120.2825
9.9	0.63	42.9	50.5894
10.6	0.6	15.3	18.04237
9.6	1.12	24.8	29.24515

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1	5.8	2.1	1024.4
1	4	1.9	0.4	999.6
2	6	3.2	7.7	1022.8
2	7.8	5.4	7.1	1020.5
3	10	5.6	5.6	1033.3
3	11.8	4.4	10.1	1035
4	13.6	5.7	8.6	1028.3
4	14.8	3.6	8.2	1024.2
5	15.9	4	5.7	1042.5
5	17.6	6.5	11.9	1026.2
6	20.3	2.2	7.3	1027.4
6	22.1	1.7	10.8	1032.8
7	23	2.6	2.3	995.8
7	27.8	0.9	1.5	1005.6
8	29.6	2.3	6.3	1007.7
8	31.8	3.8	1.8	1012.8
9	32.8	4.1	3.2	1023.5
9	35.5	5.6	1.7	1072.6
9	37.3	9.1	0.4	1057.2
10	38.1	29.5	10.8	1117.2
10	39.1	37	9.3	1177.3
10	40.5	54.8	10	1216
10	41	63.3	10.9	1229.6
10	42	53	10.1	1226.9
11	44.2	25.6	9.1	1111.7
11	45	23.7	9.7	1107.2
11	46.5	23.8	6.8	1072.8
11	47.1	13.7	7	1064.3
11	48.7	12.6	7.1	1049
12	49	12.5	9.5	1059.6
12	50.3	13.6	14.8	1056.6
12	52.7	3.1	10.2	1031.7
13	55.4	2.9	7.7	1011.3
13	57.7	3.3	6.7	1015.4
14	60.8	1.8	4.4	1012.4
15	65.6	1.4	10.8	1008.1
16	70.3	3.7	5.7	1002
17	75.1	2.5	4.8	1018.9
18	79.9	3	8.7	1009.8
19	83.8	2.3	8.3	1012.9
20	88.8	1.5	8.3	1020.8
21	94.3	0.7	8.4	1017.2
22	97.1	1.3	8.3	1012.9
23	103.8	1.9	7.8	1017.7
24	108.9	2.9	9.7	1025.3
25	114.5	0.6	9.4	1015.6
26	118.3	2.7	10.7	1014.6
27	123	4.2	11.1	1011.2
28	126.8	1.6	9.3	1020.5
28	129.7	3.5	8.6	1021.4
29	132.9	3.6	8.7	1033.6
30	135.7	1.2	12.3	1018.4
30	138.5	3.4	9.6	1024.2
31	142.2	3.9	11.6	999.6
32	147	2.1	9.7	1012.4
33	151.8	1.5	6.4	1027
34	157.9	3.9	6.2	1012.5
35	161.4	1.1	7.4	1025.5
36	166.3	1.7	6.8	995.2
37	170.8	1.2	8.8	1017.4
38	175.4	1.4	9.3	1011.8
39	178.3	2	8.8	1027