

## Geological Log - Lagoon Creek Resources

<b>Project Location</b>	<b>El Hussen</b>	<b>Hole Number</b>	<b>EH-1</b>
<b>Pad /Number</b>	<b>P1</b>		
<b>AGD84 X</b>	0802470	<b>RL (Elevation)</b>	210
<b>AGD84 Y</b>	8059699	<b>Dip</b>	40
<b>Start Date</b>	18/07/2007	<b>Azimuth True</b>	60
<b>Finish Date</b>	23/07/2007	<b>Magnetic Declination</b>	6
<b>Logged by</b>			
<b>Checked by</b>	W.D. Smith	<b>Final Depth/m</b>	142.5
<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
80	57	38.3
121	58	38.5

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<b>Major Boundaries</b>		<b>Spectrometer Highs</b>	
Unit	Depth/m	Depth/m	ppm
Pts	18.7	18.5	166.2
Ptw	EOH		

## Geological Log - Lagoon Creek Resources

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	12.7	12.7	92-100	Pts	Volcanic some amygdaloidal		60 to 80	SOSL	32.9ppm @ 4.5m	Volcanics some amigdaloidal
	12.7	15.7	3	83-100	Pts	Volcanic		10 to 70	WOWL	<30	Volcanics less broken than above
	15.7	17	1.3	100	Pts	Volcanic			SOSL	33.9ppm @ 16.5m	Volcanic quite rubbly some reduced to gouge
	17	18.7	1.7	100	Pts	Volcanic			WOSL	34.0 @ 17.5m 166.2ppm @ 18.5m	Volcanics possibly some fine sediments at 18.5, chlorite in bedding planes of Westmoreland Conglomerate
	18.7	20.7	2	100	Ptw	Sandstone	50	45	WOML	<30	Fractured and broken Westmoreland Cong.
	20.7	23.8	3.1	100	Ptw	Sandstone		45-70	WOML	<30	Westmoreland conglomerate, blotchy silicification hamatitic
NQ	23.8	31.5	7.7	88-100	Ptw	Sandstone	60	30-80	WOWL	<30	PTW blotchy silicification?
	31.5	49.5	18	93-100	Ptw	Sandstone	55	20-80	WOWL	<30	PTW blotchy silicification?
	49.5	61	11.5	100	Ptw	Sandstone	70	45-80	EF	<30	PTW blotchy silicification? Fracturing towards end of split
	61	92.5	31.5	42-100	Ptw	Sandstone	45	10-70	EF	<30	
	92.5	118	25.5	53-100	Ptw	Sandstone		0-70	WOWL	<30	Highly fractured and broken ptw
	118	124	6	100	Ptw	Sandstone		50-60	WOSL	<30	
	124	142.5	18.5	100	Ptw	Sandstone		0-70	EF	<30	Specularite? from 127 to EOH
		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	1.2	1.2	1.1	92
1.2	4.3	3.1	3.1	100
4.3	7.5	3.2	3	94
7.5	10.5	3	2.8	93
10.5	12.5	2	2	100
12.5	15.5	3	2.5	83
15.5	16.5	1	1	100
16.5	19.5	3	3	100
19.5	23.8	4.3	4.3	100
23.8	25.5	1.7	1.5	88
25.5	28.5	3	3	100
28.5	31.5	3	3	100
31.5	34.5	3	3	100
34.5	37.5	3	3	100
37.5	40.5	3	3	100
40.5	43.5	3	2.8	93
43.5	46.5	3	3	100
46.5	49.5	3	3	100
49.5	52.5	3	2.9	97
52.5	55.5	3	3	100
55.5	58.5	3	2.9	97
58.5	61.5	3	3	100
61.5	64.5	3	3	100
64.5	67.5	3	2.7	90
67.5	70.5	3	3	100
70.5	73.5	3	3	100
73.5	76.5	3	1.26	42
76.5	79.5	3	3	100
79.5	82.5	3	2.9	97
82.5	85.5	3	2.35	78
85.5	88.5	3	2.56	85
88.5	91.5	3	2.76	92
91.5	94.5	3	2.77	92
94.5	97.5	3	1.78	59
97.5	100.5	3	2.92	97
100.5	103.5	3	2.68	89
103.5	106.5	3	1.6	53
106.5	109.5	3	3	100
109.5	112.5	3	3	100
112.5	115.5	3	3	100
115.5	118.5	3	3	100
118.5	121.5	3	2.92	97
121.5	124.5	3	3	100
124.5	127.5	3	2.98	99
127.5	130.5	3	2.92	97
130.5	133.5	3	2.94	98
133.5	136.5	3	2.96	99
136.5	139.5	3	3	100
139.5	142.5	3	2.98	99

SAMPLE	Hole	From	To	Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm
R139	EH1	0.25	0.75	Duplicate		<5		
R140	EH1	0.25	0.75	Duplicate			5	
R141	EH1	0.75	1.25				6	
R142	EH1	1.25	1.75			<5		
R143	EH1	1.75	2.25			<5		
R001	EH1	2.25	2.75	<0.5	6.96	<5	1700	2
R144	EH1	2.75	3.25			<5		
R002	EH1	3.25	3.75	<0.5	7.47	<5	1110	1.8
R145	EH1	3.75	4.25				8	
R003	EH1	4.25	4.75	<0.5	6.62	<5	1070	2.1
R146	EH1	4.75	5.25			<5		
R004	EH1	5.25	5.75	<0.5	6.68	<5	640	1.5
R147	EH1	5.75	6.25			<5		
R148	EH1	6.25	6.75			<5		
R149	EH1	6.75	7.25			<5		
R150	EH1	7.25	7.75			<5		
R151	EH1	7.75	8.25			<5		
R152	EH1	8.25	8.75			<5		
R153	EH1	8.75	9.25				6	
R154	EH1	9.25	9.75			<5		
R155	EH1	9.75	10.25			<5		
R156	EH1	10.25	10.75				8	
R157	EH1	10.75	11.25				8	
R158	EH1	11.25	11.75			<5		
R159	EH1	12.25	12.75			<5		
R160	EH1	12.75	13.25				5	
R161	EH1	13.25	13.75	Duplicate		<5		
R162	EH1	13.25	13.75	Duplicate		<5		
R163	EH1	13.75	14.25				5	
R164	EH1	14.25	14.75			<5		
R165	EH1	14.75	15.25				5	
R166	EH1	15.25	15.75			<5		
R005	EH1	15.75	16.25		0.5	10.1	8	160
R006	EH1	16.25	16.75		0.6	9.96	5	110
R007	EH1	16.75	17.25	<0.5		10.5	7	110
R008	EH1	17.25	17.75	<0.5		11.35	7	150
R009	EH1	17.75	18.25		0.6	12.55	36	340
R010	EH1	18.25	18.75		0.7	10.25	10	220
R011	EH1	18.75	19.25	<0.5		0.75	<5	40
R012	EH1	19.25	19.75	<0.5		1.38	<5	20

ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	ME-ICP615	
Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %		
						39				
						28				
						61				
						46				
						25				
	3	0.04	<0.5		37	94	19	7.18	3.66	3.46
<2		0.03	<0.5		37	219	67	7.47	3.34	2.71
<2		0.03	<0.5		23	115	28	6.42	2.48	1.32
<2		0.06	<0.5		42	208	59	6.94	2.16	4.13
						31				
						29				
						33				
						22				
						23				
						23				
						24				
						21				
						17				
						26				
						13				
						12				
						11				
						10				
						4				
						5				
						5				
						6				
						4				
						5				
						7				
	2	0.18	<0.5		60	317	12	9.12	2.98	2.55
<2		0.14	<0.5		90	382	9	9.06	2.86	2.72
<2		0.06	<0.5		105	401	7	5.45	3.35	2.1
<2		0.02	<0.5		80	459	14	3.96	4.2	1.62
	4	0.02	<0.5		28	443	31	1.9	4.82	1.19
	4	0.01	<0.5		11	1160	21	3.72	4.01	0.78
<2		0.02	<0.5		2	1110	9	1.68	0.36	0.07
<2		0.01	<0.5		1	71	3	1.36	0.61	0.06

Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	
		1							
		5							
		1							
		2							
		1							
617	<1		0.04	73	710	2	<0.01	<5	35
		3							
502	<1		0.03	97	630	4	<0.01	<5	71
		1							
424	<1		0.03	57	670	9	<0.01	<5	70
		2							
618	<1		0.02	105	870	<2	<0.01	<5	19
	<1								
		1							
		1							
		1							
		1							
		1							
		1							
	<1								
		2							
	<1								
	<1								
		1							
		1							
	<1								
		1							
		1							
	<1								
		1							
		1							
464	<1		0.03	174	1140	33	<0.01	<5	5
234	<1		0.03	220	1210	23	<0.01	<5	3
237	<1		0.03	301	820	13	<0.01	<5	3
129	<1		0.04	283	440	22	<0.01	<5	7
54		1	0.04	124	360	90	<0.01	<5	15
53	<1		0.03	48	280	43	<0.01	<5	38
113	<1		0.01	4	100	<2	<0.01	8	12
138	<1		0.01	2	70	<2	<0.01	<5	15

Ti %	V ppm	W ppm	Zn ppm	Se ppm	Au ppm	Pt ppm	Pd ppm	La ppm
		263				0.006	0.0048	0.01
		254				0.004	0.0054	0.011
		290				0.002	0.0051	0.011
		254				0.004	0.0051	0.011
		253				0.003	0.0056	0.011
0.91		257 <10		40	1	0.006	0.0054	0.012
		248				0.003	0.0057	0.009
0.92		266 <10		38	1	0.003	0.0079	0.011
		250				0.003	0.004	0.009
0.78		255	10	29	1	0.005	0.0051	0.01
		271				0.003	0.0069	0.012
0.87		266 <10		34	1	0.003	0.0083	0.012
		243				0.004	0.0066	0.011
		254				0.003	0.0073	0.01
		256				0.002	0.0062	0.01
		275				0.002	0.0064	0.01
		287				0.001	0.0069	0.01
		228				0.002	0.0078	0.011
		253				0.003	0.0075	0.011
		254				0.003	0.0075	0.011
		268				0.003	0.0066	0.011
		289				0.005	0.0087	0.012
		278				0.004	0.0084	0.012
		273				0.003	0.0089	0.012
		269				0.005	0.008	0.01
		252				0.003	0.0072	0.009
		254				0.003	0.0085	0.011
		247				0.003	0.0079	0.011
		274				0.004	0.0078	0.01
		258				0.003	0.0078	0.011
		358				0.004	0.0101	0.012
		1470				0.004	0.0171	0.014
1.47		4860	10	80	2	0.004	0.0144	0.017
1.39		3840	10	108	2	0.004	0.0178	0.023
1.45		1580	10	152	2	0.006	0.0271	0.026
1.67		2250	10	219	2	0.011	0.0176	0.026
1.83		2040	10	88	2	0.011	0.006	0.02
1.35		4330	10	36	2	0.066	0.0043	0.024
0.03		795 <10		3	1	0.092	0.0016	0.002
0.04		70 <10	<2	<1		0.002	0.0006	0.001

ME-MS61 Th ppm	ME-MS61 Ti ppm	ME-MS61 U ppm	ME-MS61 U3O8 ppm
7.4		23.6	27.83006
9.3		32.7	38.56115
7.4		38	44.81112
4.4		29.1	34.31588
4.3		28.2	33.25457
7.6	0.63	66.5	78.41946
5.1		169.5	199.8812
8.4	1	254	299.527
12.3		151.5	178.6549
11.5	0.75	215	253.5366
8.1		65.7	77.47607
7.7	0.61	92.4	108.9618
7.8		57	67.21668
7.8		55.1	64.97612
8.1		39.4	46.46206
7.8		25.6	30.18854
4.8		18.9	22.28764
4.6		26.8	31.60363
5.6		59.2	69.81101
4.2		49.3	58.13653
6.4		70.5	83.13642
5.8		39.8	46.93375
6.9		37.2	43.86773
9.5		21.2	24.99989
8.7		21.6	25.47158
8.8		22	25.94328
7.2		16.6	19.57538
4.1		15.8	18.63199
3.8		15.1	17.80652
3		15.3	18.04237
7.6		46.2	54.48089
5.4		53.5	63.08934
11.7	0.9	101.5	119.6929
10.1	0.92	109	128.5372
12.6	0.88	76	89.62224
7.8	1.13	120.5	142.0984
8.1	1.26	480	566.0352
13.2	1	110.5	130.306
5.1	0.2	5.8	6.839592
4.8	0.2	1.9	2.240556



Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.9	22	13.7	1065.9
1	1.4	23.1	8.5	1093.1
1	2.2	23.3	8.9	1085
2	4	38.6	9.7	1152
2	4.9	38	8.8	1147
2	5.6	27.3	8.6	1100.3
2	6.8	26	12	1093.7
3	7.5	18.3	10.2	1079.7
3	8.6	16.2	13.2	1079.9
3	9.2	20.6	4.4	1068.4
3	10.3	22.2	10.4	1082.6
4	11.1	15.8	6.1	1077
4	12.2	15.3	10.5	1055.3
4	13	14	7.2	1050.1
4	14	14.5	9.1	1076.4
5	15.6	27.7	12.8	1111.6
5	16.5	31.9	11.6	1138.5
5	17.5	43.7	9.3	1167.3
6	18.6	24.8	11.2	1109
6	19.4	34.5	10.4	1123.8
6	20.5	18	4.1	1056.6
6	21	14.8	7.2	1024.4
7	22.5	7.9	6.7	1001.2
8	26	1.4	7.7	983.2
9	32.5	3.3	7.5	981.3
10	35.5	3.2	6.1	983.6
11	40	2.3	10	1009.7
12	45	4.7	5.1	1001.9
13	49.5	3.7	4.7	993.3
14	54	3.1	13.2	993.3
15	58.7	2.9	9.5	996.8
16	63.4	2.9	6.6	1008.6
17	68	5.6	6.4	1008.2
18	72	5	8.4	996.3
19	76.2	3.2	6.6	982.9
20	80.5	3.8	6.1	993.2
21	85.2	2.7	12.3	1003.9
22	89.3	4.1	7	1009.6
23	97.6	4	6.5	994
24	100.8	1	8.2	997.4
25	106.9	2.8	7.1	991.1
26	111	5.3	8.3	1009.7
27	115.5	2.7	7.6	1001
28	119.8	4	6.1	1003.4
29	123.8	4.3	9.4	998.8
30	128.2	4.7	8.4	1001.6
31	133	3.6	10.4	1014.4
32	137.8	1.9	12.9	1003
33	141.3	4.9	10.7	1012.9