

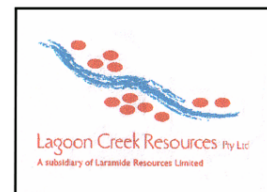
**Gulf Mines Limited
Joint Venture with Lagoon Creek
Resources Pty Ltd**

**EL 10335
Northern Territory**

Drilling in 2007 at El Hussen

By Russ Lord B.Sc. (Hons)

March 2008



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MEMORANDUM

DATE: 19th March 2008
TO: Lagoon Creek Resources
FROM: Russ Lord
SUBJECT: El Hussen 2007 Drilling, Gulf Mines Ltd EL 10335
PAGES: 12

El Hussen Drilling

The El Hussen drilling was conducted on five sections and they are presented separately in MapInfo files, and as condensed versions below. The sections are at right angles to a NW trending base line. Some show near surface Seigal Volcanics overlying a basal shale, which in turn overlies the Westmoreland Conglomerate. Others show only the Westmoreland Conglomerate. The shale may be a tuff and is mapped as such to the east in Queensland. The geochemistry suggests this too with potassic enrichment in the zone in and around this shale in the two holes on which K assaying was done (EH-1 & EH-8) in uranium mineralised areas (see geochemistry below). Figure 1 is a plan covering all the 2007 El Hussen drill holes. A plan is also presented above each section showing the relative positions of the drill holes about the section line.

The distribution of mineralisation on the five sections shows the following trends:

- Section 1 (furthest NW) (Fig 2)
 - Uranium mineralisation in EH-1 is concentrated in the Seigal Volcanics above a fault over an interval of 21m from the surface as measured by the scintillometer (24.1 ppm), or 18.75m as measured by the U assays –
 - 2m @ 197.5 ppm (2.75-4.75m) &
 - 3m @ 166.2 ppm (15.75-18.75m)
 - The next hole down dip (EH-5) was not assayed but the scintillometer readings were ~1m @ 13.6 ppm (41-42m) or 47m @ 5.6 ppm (0-47m).
 - Deeper still and the scintillometer readings are poorer in both EH-4 and EH-2.
 - The correlation between the early scintillometer readings (U ppm) and the subsequent U assays is indicated in **Table 1** below. The +100 ppm U assays correspond to 23.3-38.6 ppm scint U ppm in the upper zone and 24.8-43.7 ppm scint U ppm in the lower one. Values of 15-50 ppm U assays relate to 14.5-27.3 ppm scint U.

Table 1 Spectrometer Readings compared to U assays in EH-1

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS	Lithology	Interval (m)	U (ppm) Assay
1	0.9	22.0	13.7	1065.9	Weathered basalt	0.25-0.75	23.6
						0.75-1.25	38.0
1	1.4	23.1	8.5	1093.1	“	1.25-1.75	29.1
						1.75-2.25	28.2
1	2.2	23.3	8.9	1085.0	“	2.25-2.75	66.5
						2.75-3.25	169.5
						3.25-3.75	254
2	4.0	38.6	9.7	1152.0	“	3.75-4.25	151.5
						4.25-4.75	215
2	4.9	38.0	8.8	1147.0	“	4.75-5.25	65.7
2	5.6	27.3	8.6	1100.3	“	5.25-5.75	92.4
						5.75-6.25	57
						6.25-6.75	55.1
2	6.8	26.0	12.0	1093.7	“	6.75-7.25	39.4
3	7.5	18.3	10.2	1079.7	“	7.25-7.75	25.6
						7.75-8.25	18.9
3	8.6	16.2	13.2	1079.9	“	8.25-8.75	26.8
						8.75-9.25	59.2
3	9.2	20.6	4.4	1068.4	“	9.25-9.75	49.3
						9.75-10.25	70.5
3	10.3	22.2	10.4	1082.6	“	10.25-10.75	39.8
						10.75-11.25	37.2
4	11.1	15.8	6.1	1077.0	“	11.25-11.75	21.2
4	12.2	15.3	10.5	1055.3	Lt grn altered basalt	12.25-12.75	21.6
4	13.0	14.0	7.2	1050.1	“	12.75-13.25	22.0
						13.25-13.75	16.6
						13.75-14.25	15.1
4	14.0	14.5	9.1	1076.4	“	14.25-14.75	15.3
						14.75-15.25	46.2
5	15.6	27.7	12.8	1111.6	Broken shrd basalt	15.25-15.75	53.5
						15.75-16.25	101.5
5	16.5	31.9	11.6	1138.5	White oxidised claystone	16.25-16.75	109
						16.75-17.25	76
5	17.5	43.7	9.3	1167.3	“	17.25-17.75	120.5
						17.75-18.25	480
6	18.6	24.8	11.2	1109.0	White sst	18.25-18.75	110.5
						18.75-19.25	5.8
6	19.4	34.5	10.4	1123.8	“	19.25-19.75	1.9
6	20.5	18.0	4.1	1056.6	“		
6	21.0	14.8	7.2	1024.4	“		
7	22.5	7.9	6.7	1001.2	“		
8	26.0	1.4	7.7	983.2	White sst with specularite		

- Section 2 (Fig 3). The only U assaying undertaken on this section was in EH-8 and the comparison with the earlier scintillometer results is shown in **Table 2** below. The +100 ppm U assay values correlate with the 29-53 ppm U scintillometer values. The one assay of 276 ppm U corresponded with a 63.3 ppm scintillometer reading. There were another three 23.7-25.6 ppm U scintillometer readings in the contiguous meterage below this intersection that we don't have assays with which to compare. The inference is though that these samples would assay less than 100 ppm U.
- Section 3 (Fig 4). No uranium assaying was undertaken on this section. This is in keeping with low scintillometer scans in drill holes EH -9 and EH-10. The maximum values were:
 - 10.5-11.7 ppm U @ 3.1-4.9m down hole in amygdaloidal basalt and
 - 12.1-13.0 ppm U @ 6.1-9.7m down hole in the basal high clay siltstone.
 Going on indications in the earlier sections, it is unlikely that these holes would contain economic assays for uranium in these intervals.
- Section 4 (Fig 5). No uranium assaying was undertaken on this section in 2007. Pre 2007 work indicated some anomalism at the base of the Seigal Volcanics. EH-12 & EH-13 were not sited in the contact area between the Seigal Volcanics and the Westmoreland Conglomerate. The range of scintillometer values found in these two holes were:
 - EH-12 0.9-4.0 ppm U &
 - EH-13 0.3-4.2 ppm U.
 Not surprisingly this material was not assayed.
- Section 5 (Fig 6). furthest SE (Fig 6). No uranium assaying was undertaken on this section in 2007. Pre 2007 work indicated some very weak anomalism at the base of the Seigal Volcanics. EHS-1 & EHS-2 were not sited in the contact area between the Seigal Volcanics and the Westmoreland Conglomerate. The range of scintillometer values found in these two holes were:
 - EHS-1 0.4-5.1 ppm U &
 - EHS-2 0.4-5.2 ppm U.
 - These holes were more anomalous for Th than U.
 Again it is not surprising that this material was not assayed.

Table 2 Spectrometer Readings compared to U assays in EH-8

Core Tray	Depth (m)	U (ppm) Scint	Th (ppm)	CPS Scint	Lithology	Interval (m)	U (ppm) Assay
9	32.8	4.1	3.2	1023.5	Altered basalt	36.2-36.7	39.0
9	35.5	5.6	1.7	1072.6	Altered Amyg Basalt	36.7-37.2	29.5
					“	37.2-37.7	36.2
					“	37.7-38.2	31.5
9	37.3	9.1	0.4	1057.2	“	38.2-38.7	70.4
10	38.1	29.5	10.8	1117.2	“	38.7-39.2	100.5
					“	39.2-39.7	150.5
10	39.1	37.0	9.3	1177.3	“	39.7-40.2	122
10	40.5	54.8	10.0	1216.0	“	40.2-40.7	228
10	41.0	63.3	10.9	1229.6	“	40.7-41.2	276
					“	41.2-41.7	188
					“	41.7-42.2	157
10	42.0	53.0	10.1	1226.9	“	42.2-42.7	102
					“	42.7-43.2	42.9
					“	43.2-43.7	15.3
					“	43.7-44.2	24.8
11	44.2	25.6	9.1	1111.7	“		
11	45.0	23.7	9.7	1107.2	“		
11	46.5	23.8	6.8	1072.8	”		
11	47.1	13.7	7.0	1064.3	“		
11	48.7	12.6	7.1	1049.0	Altered leached sediment		
12	49.0	12.5	9.5	1059.6	“		
12	50.3	13.6	14.8	1056.6	“		
12	52.7	3.1	10.2	1031.7	“		

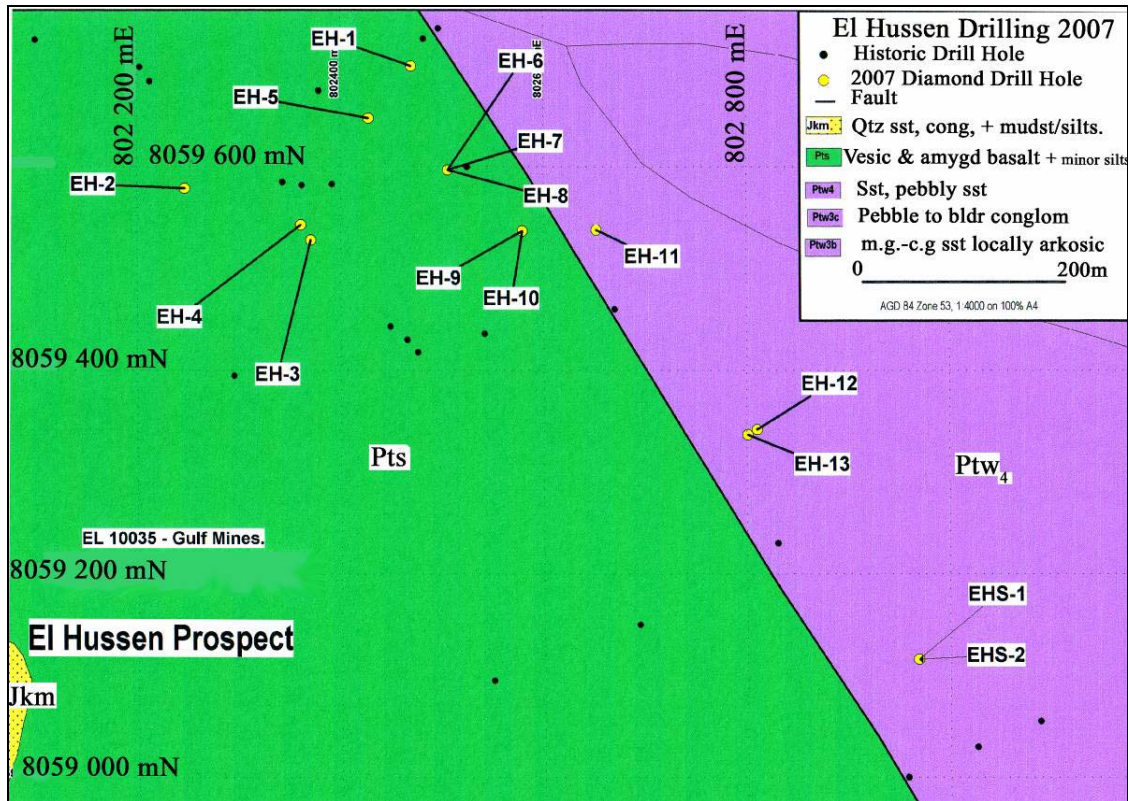


Figure 1 El Hussen 2007 Drill Hole Plan

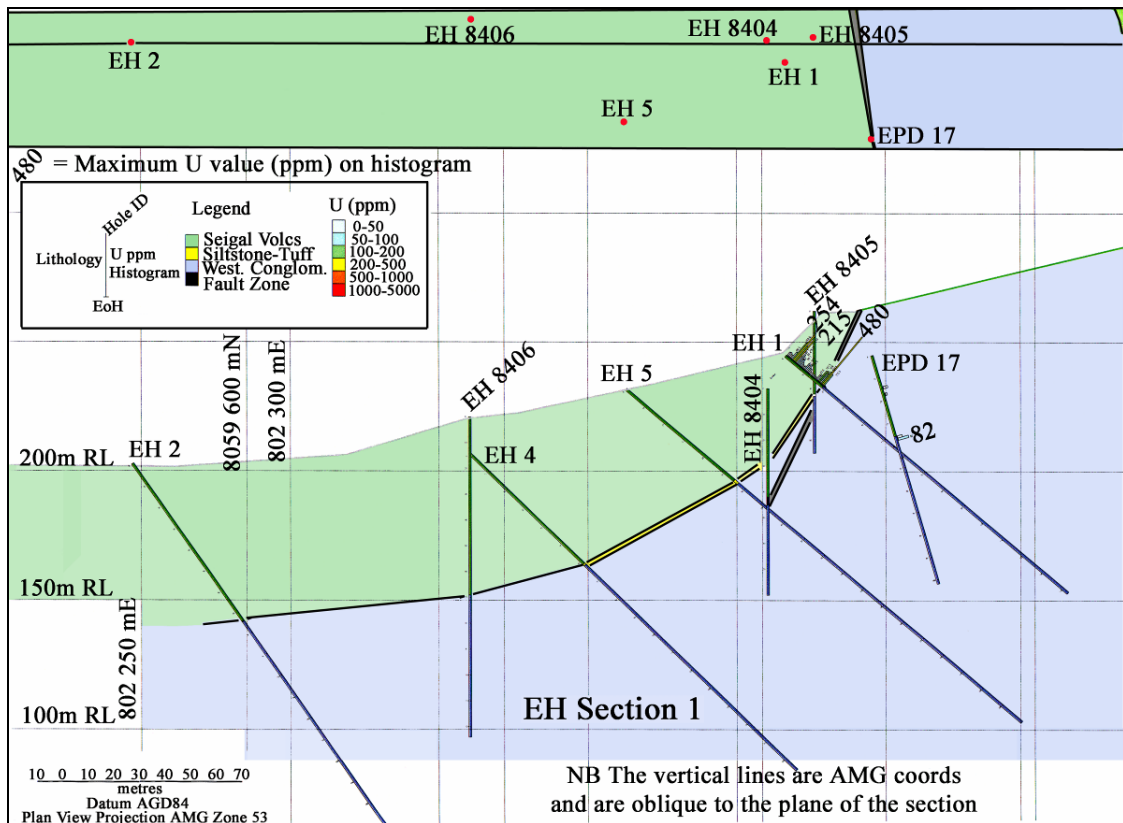


Figure 2 El Hussen Cross Section 1

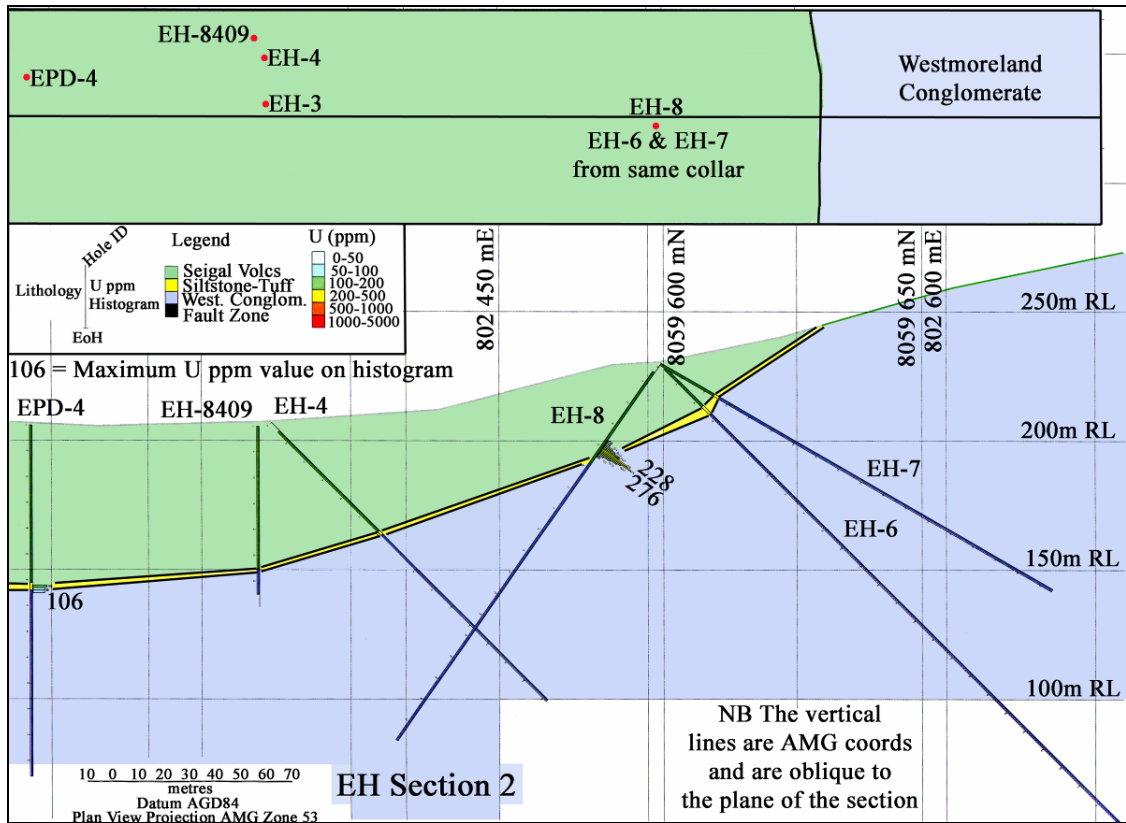


Figure 3 El Hussen Cross Section 2

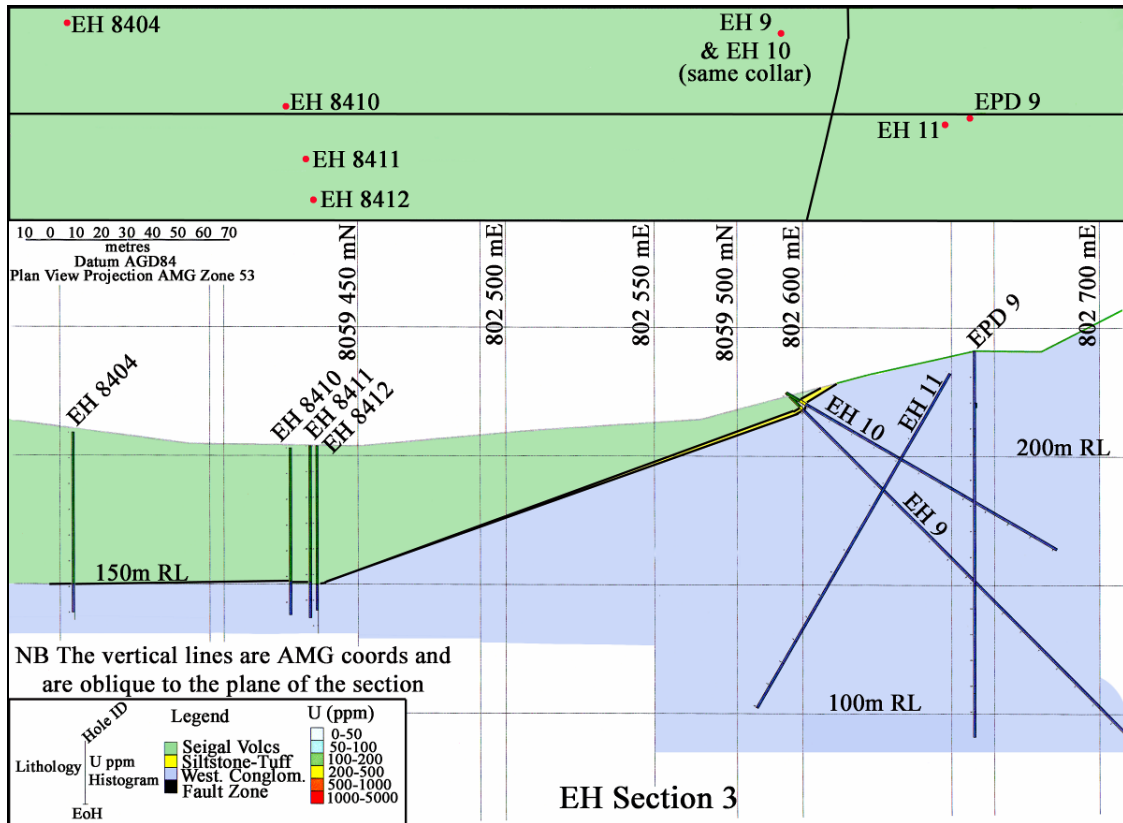


Figure 4 El Hussen Cross Section 3

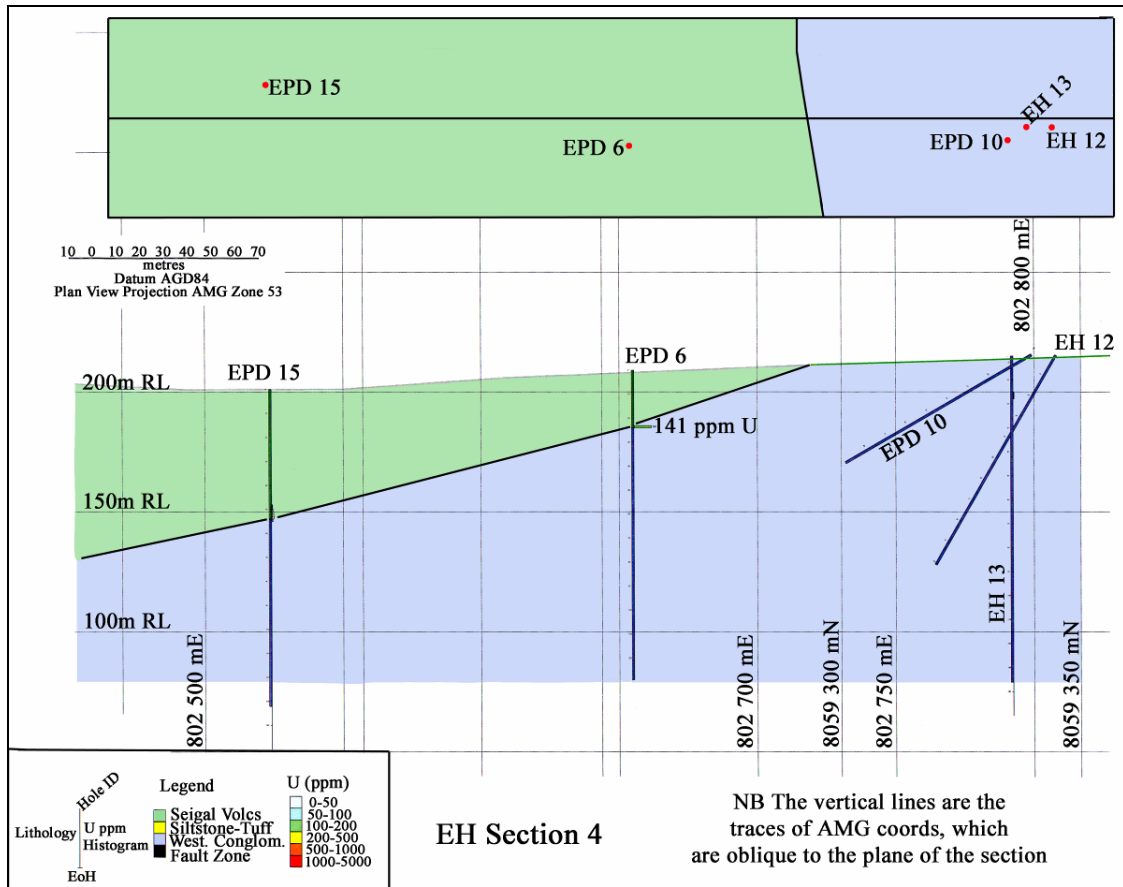


Figure 5 El Hussen Cross Section 4

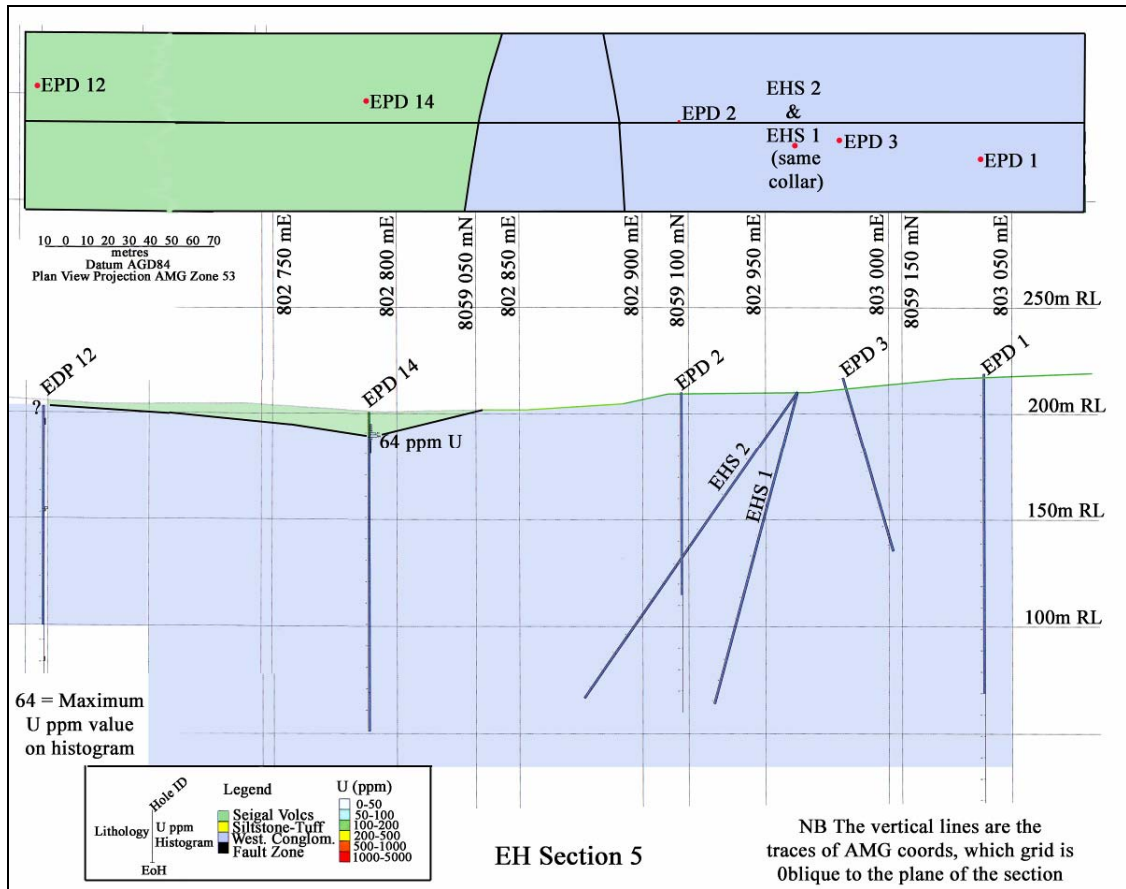


Figure 6 El Hussen Cross Section 5

El Hussen Drilling Geochemistry

Sections of only two of the El Hussen holes were assayed, EH-1 & EH-8. These holes are ~108m apart (Table 3).

Table 3 The main U mineralised intervals identified from the El Hussen drilling assays in 2007

Drill Hole	Sample No	From (m)	To (m)	Ag (ppm)	As (ppm)	K (%)	P (ppm)	Au (ppb)	Pt (ppb)	U (ppm)
EH 1	R144	2.75	3.25					3	5.7	169.5
"	R002	3.25	3.75	<0.5	<0.5	3.34	630	3	7.9	254
"	R145	3.75	4.25					3	4.0	151.5
"	R003	4.25	4.75	<0.5	<0.5	2.48	670	5	5.1	215
EH 1	R005	15.75	16.25	0.5	8	2.98	1140	4	14.4	101.5
"	R006	16.25	16.75	0.6	5	2.86	1210	4	17.8	109
"	R007	16.75	17.25	<0.5	7	3.35	820	6	27.1	76
"	R008	17.25	17.75	<0.5	7	4.2	440	11	17.6	120.5
"	R009	17.75	18.25	0.6	36	4.82	360	11	6.0	480
"	R010	18.25	18.75	0.7	10	4.01	280	66	4.3	110.5
EH 8	R167	38.75	39.25		<0.5			2	8.8	100.5
"	R168	39.25	39.75		<0.5			3	8.8	150.5
"	R018	39.75	40.25	<0.5	6	3.96	1160	4	10.5	122
"	R019	40.25	40.75	3.7	189	3.90	1340	2	4.9	228
"	R020	40.75	41.25	0.7	76	4.12	1520	5	11.0	276
"	R021	41.25	41.75	<0.5	12	3.54	1140	2	10.2	188.5
"	R022	41.75	42.25	<0.5	6	2.38	1120	3	8.7	157.5
"	R023	42.25	42.75	<0.5	5	2.64	840	1	7.4	102

In EH-1 there are two weakly mineralised uranium intersections. One of them has associated anomalism for P and Pt (and Au in one sample), and the other has no associated anomalism, except perhaps for Ba (1110-1070 ppm). Background for Ba elsewhere in these holes is 60-160 ppm.

In EH-8 there is associated anomalism for Ag, As, P and Pt central to the U mineralised section.

Gold Assaying on Specularite Zones

Twenty seven samples of specularite and other alteration zones were taken from El Hussen drill holes in the hope there might be a gold association. Those samples with elevated Au values or associated elements are indicated in Table 4 below.

Table 4 Specularite Zone samples from NE WM Drill Holes

Drill Hole	From (m)	To (m)	Intev (m)	Lithology	Sam p No	Cu (ppm)	Mo (ppm)	U (ppm)	Au (ppb)	Pt (ppb)	Pd (ppb)
EH-4	143.8	144.3	0.5	Granular hematite	R-147G	14	<1	6	40	1.1	2
EH-8	50.5	51.0	0.5	Hemat. Contact	R-156G	13	<1	7	33	3	6
EH-9	82.0	82.5	0.5	Very siliceous	R-158G	24	1	4	22	1	2
"	196.0	196.5	0.5	v. fract siliceous conglom.	R-161G	4	<1	5	10	5.1	2
EH-11	61.0	61.5	0.5	Hemat. Sandst.	R-162G	7	<1	6	14	1.5	1

The results were all miserably low, and hardly merit further comment.

Memo on the El Hussen Drilling

A comprehensive memorandum on the El Hussen Drill and Radiometric logs was compiled in September 2007. It also covered the El Hussen South drilling, some of which falls on contiguous EL 23573. The NuPower logs have been excised from the version presented here.

Memorandum

(Abridged version which excludes EHS holes on NuPower EL 23573)

From: Russ Lord
To: Greg Duncan and Peter Mullens
Copies: Rhys Davies and Peter Morehouse
Subject: Drill Hole Lithologic & Radiometric Summaries El Hussen
Date: 19.09.07
Pages: 34

Below follows condensed drill hole geological and radiometric summaries of the El Hussen holes to Sept 19. AGD 84 coordinates are also indicated for these holes. The logs have been colour coded to make them easier to understand. The radiometric logs are based on the scintillometer readings and not on assays.

EH-1 802470 mE 8059699 mN 210m asl Dec 40° Azim 60° TD 142.5m

Table 1 Condensed log of EH-1

From (m)	To (m)	Intercept (m)	Geology
0	12	12	Weathered basalt
12	15.8	3.8	Light green altered basalt
15.8	16.5	0.7	Broken sheared basalt
16.5	18.6	2.1	White oxidized claystone
18.6	23.8	5.2	White sandstone – end HQ
23.8	25.9	2.1	White sandstone with specular hematite
25.9	88.5	62.6	White sandstone with specular hematite sections
88.5	104	15.5	Grey sandstone/grit
104	106.5	2.5	Core loss - very broken- 1.5m core
106.5	142.5	36.0	Sandstone with specular hematite sections

Table 2 Radiometric readings from EH-1

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.9	22.0	13.7	1065.9
1	1.4	23.1	8.5	1093.1
1	2.2	23.3	8.9	1085.0
2	4.0	38.6	9.7	1152.0
2	4.9	38.0	8.8	1147.0
2	5.6	27.3	8.6	1100.3
2	6.8	26.0	12.0	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	1077.0
4	12.2	15.3	10.5	1055.3
4	13.0	14.0	7.2	1050.1
4	14.0	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	1109.0
6	19.4	34.5	10.4	1123.8
6	20.5	18.0	4.1	1056.6
6	21.0	14.8	7.2	1024.4
7	22.5	7.9	6.7	1001.2
8	26.0	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	40.0	2.3	10.0	1009.7
12	45.0	4.7	5.1	1001.9
13	49.5	3.7	4.7	993.3
14	54.0	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	68.0	5.6	6.4	1008.2
18	72.0	5.0	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	7.0	1009.6
23	97.6	4.0	6.5	994.0
24	100.8	1.0	8.2	997.4
25	106.9	2.8	7.1	991.1
26	111.0	5.3	8.3	1009.7
27	115.5	2.7	7.6	1001.0

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
28	119.8	4.0	6.1	1003.4
29	123.8	4.3	9.4	998.8
30	128.2	4.7	8.4	1001.6
31	133.0	3.6	10.4	1014.4
32	137.8	1.9	12.9	1003.0
33	141.3	4.9	10.7	1012.9

EH-2 802247 mE 8059579 mN 184m asl Dec 55° Azim 56° TD 87.2m

Table 3 Condensed log of EH-2

From (m)	To (m)	Intercept (m)	Geology
0	12.6	12.6	Basalt, broken & rubbly
12.6	17.6	5.0	Amygdaloidal basalt
17.6	31.4	13.8	“
31.4	52.9	21.5	Basalt with less amygdales
52.9	61.0	8.1	Altered basalt
61.0	63.7	2.7	Brown basalt
63.7	68.7	5.0	Amygdaloidal basalt
68.7	73.8	5.1	Green basalt
73.8	76.8	3.0	Light green basalt
76.8	77.1	0.3	Very light green basalt
77.1	77.6	0.5	Sheared light green basalt
77.6	77.8	0.2	Hematitic sandstone with chlorite layers parallel to the bedding
77.8	79.8	2.0	White sandstone with weak specular hematite
79.8	82.8	3.0	White sandstone with strong specular hematite
82.8	84.3	1.5	White sandstone
84.3	88.6	4.3	Strongly banded specular hematitic white sandstone
88.6	175.8	87.20	Specularite bearing sandstone with gritty sections

Table 4 Radiometric readings from EH-2

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.5	3.4	7.1	998.0
1	1.5	2.6	10.0	1005.0
2	7.7	4.0	6.6	1004.0
3	12.7	5.6	9.3	1003.0
4	15.3	4.4	5.6	1006.0
5	17.3	7.4	8.2	996.9
6	19.5	6.3	6.8	998.0
7	24.1	5.1	3.2	995.0
8	28.8	2.5	11.0	1023.4
9	33.4	4.3	6.1	1001.1
10	38.3	5.4	7.4	995.7
11	43.1	4.2	5.1	1003.4
12	47.7	1.3	9.6	995.8
13	52.4	4.5	8.4	999.0
14	57.0	5.6	5.0	1008.2
15	61.6	3.9	8.5	1014.8
16	66.5	2.8	7.6	1007.2
17	71.1	2.2	9.6	999.9
18	75.6	3.3	10.9	1006.0
18	77.3	5.2	7.4	1009.6
19	80.4	3.7	6.6	990.0
20	85.2	3.0	6.2	994.5
21	89.1	1.8	8.6	1005.2
22	94.8	2.5	12.3	998.2
23	99.5	3.2	9.4	997.5
24	104.4	3.6	10.4	1007.2
25	109.1	3.2	6.6	1011.2
26	113.8	4.7	8.4	1009.4
27	118.5	4.8	11.2	1026.3
28	123.2	4.5	6.5	1006.9
29	128.0	4.2	7.0	986.8
30	132.8	2.7	9.5	1005.7
31	137.6	3.9	10.4	1007.2
32	142.5	3.7	8.5	1018.1
33	147.3	3.0	9.5	997.9
34	151.9	4.6	7.5	1014.4
35	156.6	3.0	9.0	990.5
36	161.5	3.8	8.9	1019.3
37	166.4	3.6	17.0	1016.7
38	171.1	2.3	15.2	1018.1
39	175.6	3.9	13.7	1030.6

EH-3 802371 mE 8059528 mN 187m asl Dec 45° Azim 60° TD 151.6m

Table 5 Condensed log of EH-3

From (m)	To (m)	Intercept (m)	Geology	U (ppm)
0	4.5	4.5	Highly oxidised & brittle with soil	
4.5	6.7	2.2	Very fractured amygdaloidal volcanics	
6.7	13	6.3	Fractured amygdaloidal volcanics	
13	14.8	1.8	Weakly chloritised volcanics with some silica on fractures	
14.8	23.5	8.7	Weakly fractured volcanics	
23.5	28.6	5.1	Moderately fractured volcanics with leaching on fractures, some clay alteration	
28.6	38.4	9.8	Hematite & chlorite in amygdales of basalt	
38.4	43.6	5.2	Amygdaloidal basalt-weakly chloritic	
43.6	46.6	3.0	Amygdaloidal basalt	5.0
46.6	49.0	2.4	Fine grained basalt	4.3
49.0	54.0	5.0	Amygdaloidal basalt	3.5/ 4.3
54.0	58.6	4.6	Leached light grey basalt	6.0/ 6.9/ 9.3
58.6	60.7	2.1	Chocolate oxidized amygdaloidal basalt	18.0/ 18.8/ 12.8
60.7	61.2	0.5	Sheared mudstone/claystone – originally basalt (?)	
61.2	61.6	0.4	Banded chloritic sandstone	
61.6	64.6	3.0	White banded sandstone	6.8
64.6	67.6	3.0	Banded specularite sandstone	5.6/ 4.0
67.6	139.5	71.9	Sandstone and grits variously hematised with specularite	4.3 dec to 3.2 with depth
139.5	143	3.5	Cobblestone grit	
143	151.6	8.6	Grey grit	

Table 6 Radiometric readings from EH-3

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	6.0	990.0
4	12.9	5.8	8.3	1006.7
5	17.3	3.1	7.1	1002.0
6	21.9	3.4	11.3	1001.4
7	26.3	3.7	8.0	1002.9
8	30.4	3.6	10.4	1003.4
9	35.0	4.9	6.0	988.4
10	39.7	4.2	8.4	1005.3
11	44.1	4.6	6.1	1018.0
12	48.8	4.3	10.8	1008.0
13	53.4	3.8	8.9	1020.0
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	23.0	7.5	1071.1
14	60.3	17.0	8.4	1051.0
15	61.3	9.7	9.0	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	3.0	9.0	996.4
18	77.0	2.6	8.5	1007.3
19	81.2	4.7	5.5	1013.0
20	86.4	3.1	11.8	1002.2
21	91.3	13.2	6.6	998.2
22	96.0	3.8	7.5	994.7
23	100.7	2.7	9.5	994.4
24	105.6	3.2	8.0	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	11.0	991.5
29	129.1	1.7	10.5	993.8
30	133.7	2.6	10.0	985.0
31	138.6	2.5	9.0	1015.0
32	1142.8	1.6	11.0	1004.1
33	147.4	1.2	17.2	988.5
34	151.5	5.1	9.3	981.4

EH-4 802361 mE 8059543 mN 187m asl Dec 44° Azim 61° TD 176.0

Table 7 Condensed log of EH-4

From (m)	To (m)	Intercept (m)	Geology
0	9	9	Weathered basalt
9	16	7	Amygdaloidal basalt
16	32.5	16.5	Fine grained basalt
32.5	35.0	2.5	Less amygdaloidal basalt
35.0	41.0	6.0	Fine grained basalt with blue chrysocolla coloured amygdales at 41.0m
41.0	43.0	2.0	Amygd. Basalt with browb matrix
43.0	45.0	2.0	Amygd. basalt
45.0	54.8	13.8	Fine grained basalt with some amygds
54.8	56.5	1.7	Fine grained basalt with minor amygdales
56.5	58.9	2.3	Green basalt with minor amygds.
58.9	59.1	0.2	Chocolate oxidised patch
59.1	61.3	2.2	Green altered basalt
61.3	61.9	0.6	Sheared basalt
61.9	63.0	1.1	White sandstone with some specular hematite parallel to bedding
63.0	67.5	4.5	White sandstone
67.5	111.0	46.5	Specular hematitic sandstone
111.0	117.0	6.0	White & grey sandstone
117.0	119.0	2.0	As above with a little specular hematite
119.0	142.0	23.0	Specular hematitic sandstone
142.0	145.0	3.0	Cobblestone hematitic grit
145.0	167.0	22.0	Grey grits with specular hematite
167.0	176.0	9.0	White sandstone/grit

Table 8 Radiometric readings from EH-4

Core Tray	Depth (m)	Lithology	U (ppm)	Th (ppm)	CPS
1	2.5	Weath.basalt	4.9	6.0	979.0
2	7.0	"	4.1	2.3	987.0
3	10.0	Amygd. Bas.	2.8	7.1	994.6
4	14.0	"	3.2	6.6	974.8
5	19.0	F.g. basalt	1.3	11.5	992.4
6	24.5	"	3.0	6.2	991.3
7	29.2	"	2.7	7.6	982.0
8	32.1	"	3.4	6.6	981.2
9	36.5	" – Blue amygd @ 41.0m	3.0	14.2	980.6
10	42.5	Amy.bas-brn matrix	2.9	6.7	1008.2
11	45.3	F.g. basalt	4.4	7.0	1001.4

Core Tray	Depth (m)	Lithology	U (ppm)	Th (ppm)	CPS
12	51.4	“ some amy.	6.1	6.5	1003.7
13	55.0	F.g. basalt	4.4	8.9	991.5
14	61.5	Sheared basalt	8.2	8.7	988.6
15	65.5	White sst.	2.0	8.6	985.8
16	69.0	Spec hem sst	2.9	8.0	1000.2
17	74.0	“	3.8	6.1	990.7
18	78.5	“	3.4	6.6	988.3
19	85.5	“	2.6	8.5	990.1
20	90.0	“	2.2	12.3	991.7
21	93.9	“	3.3	5.6	982.2
22	98.6	“	3.1	11.8	1007.0
23	103.5	“	3.4	9.9	997.6
24	107.5	“	0.8	11.5	980.5
25	113.0	White & grey sst	4.5	5.1	983.4
26	117.8	“	1.9	8.1	991.6
27	122.6	Spec hem sst	2.1	11.4	996.4
28	127.0	“	3.0	6.1	998.8
29	132.8	“	5.3	11.7	1011.2
30	136.5	“	4.7	10.3	996.4
31	142.4	Cobblestone hematitic grit.	3.2	6.6	1004.4
32	147.0	Grey grits with spec. hem	3.8	7.5	990.2
33	150.7	“	2.2	7.6	998.9
34	155.5	“	5.4	4.1	996.7
35	160.0	“	4.4	8.9	992.7
36	164.6	“	1.2	10.5	989.4
37	169.5	White sst/grit	2.7	9.5	997.0
38	174.0	“	5.0	5.6	1012.2

EH-5 802428 mE 8059648 mN 200m asl Dec 40° Azim 61° TD 200.5m

Table 9 Condensed log of EH-5

From (m)	To (m)	Intercept (m)	Geology
0	3.4	3.4	Basalt clasts in red clay
3.4	8.6	5.2	Oxid. grey-brn amyg. basalt
8.6	21.5	12.9	Brn. black oxid. Basalt
21.5	24.2	2.7	Grey solid basalt – end HQ
24.2	29.5	5.3	Oxid. Grn-brn amyg. Basalt
29.5	31.0	1.5	Fresher amyg. Basalt
31.0	33.7	2.7	Grey basalt
33.7	37.2	3.5	Red & grey amyg basalt
37.2	39.7	2.5	Grey grn basalt
39.7	42.2	2.5	Red amyg basalt
42.2	46.0	3.8	Grey amyg basalt
46.0	52.4	6.4	Grey non-amyg basalt
52.4	57.2	4.8	Lt grey-grn leached basalt
57.2	57.5	0.3	White sandstone with chlorite on bedding planes. CBA 70°.
57.5	66.7	9.2	White sandstone with specularite
66.7	71.5	4.8	White sst with more specularite
71.5	78.3	6.8	White sandstone
78.3	83.9	5.6	Quartz vein & jasper zone
83.9	93.6	9.7	Banded specularitic sandstone
93.6	133.0	39.4	Whiter sandstone with disseminated specularite
133.0	142.5	9.5	Heavy specularitic sandstone. CBA 70°
142.5	155.5	13.0	Grey & white arkosic grit with a little specularite
155.5	161.5	6.0	Specularitic sandstone. CBA 70°
161.5	200.5	39.0	Dissem specularitic white sandstone with brn volc @ 168.7m

Table 10 Radiometric readings from EH-5

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	3.0	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	1004.0
8	23.7	3.7	6.2	993.5
9	26.0	4.3	9.1	999.7
10	32.0	5.2	7.5	1004.8
11	Not used			
12	38.0	7.7	8.4	1024.8
13	41.0	13.3	5.4	1003.1
13	42.0	14.0	9	1093.3
14	47.0	5.7	10.7	1002.1
15	50.0	4.2	7.8	992.3
16	56.0	4.7	9.0	1008.8
17	59.0	4.1	7.9	998.3
18	65	2.5	8.2	982.1
19	71.0	2.8	7.0	989.1
20	74.0	2.0	7.7	989.9
21	80.0	2.7	7.5	988.6
22	83.0	2.9	7.4	984.9
23	89.0	2.9	7.3	1000.4
24	95.0	3.0	7.8	985.5
25	98.0	2.9	8.5	989.9
26	104.0	3.1	7.4	986.0
27	107.0	2.9	8.9	988.1
28	113.0	1.7	9.3	984.0
29	116.0	1.7	7.9	994.7
30	122.0	2.2	8.2	986.3
31	125.0	2.5	6.8	989.6
32	131.0	1.3	7.6	999.3
33	134.0	2.3	10.2	992.3
34	140.0	1.9	8.4	989.4
35	147.0	2.5	8.7	993.7
36	150.0	2.8	9.9	993.0
37	156.0	2.4	8.1	992.5
38	159.0	3.0	6.6	992.2
39	161.0	2.1	6.9	990.0
40	168.0	2.6	6.5	992.9
41	174.0	2.8	8.8	984.2
42	177.0	4.3	7.9	986.6

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
43	183.0	2.3	7.7	992.8
44	189.0	2.9	7.3	995.8
45	192.0	2.2	8.5	995.0
46	198.0	2.3	8.3	989.4
47	200.0	2.4	7.7	997.1

EH-6 802506 mE 8059597 mN 209m asl Dec 45° Azim 60° TD 250.8m

Table 11 Condensed log of EH-6

From (m)	To (m)	Intercept (m)	Geology
0	2.5	2.5	Decomposed basalt
2.5	5.0	2.5	Grey/green basalt
5.0	6.5	1.5	Amygdaloidal basalt
6.5	8.0	1.5	Black basalt
8.0	11.0	3.0	Amygd. Grey/black basalt
11.0	13.6	2.6	Grey/green oxidized basalt
13.6	17.4	3.8	Grey/green Amygd. Basalt
17.4	22.9	5.5	Grey/green basalt
22.9	27.1	4.2	Light grey leached decomp. Basic volcanic. Last 0.4m white-cream
27.1	27.3	0.2	Chlorite replacing bands in white sandstone
27.3	33.4	6.1	White sandstone
33.4	33.5	0.1	Chocolate shale
33.5	61.5	28.0	Specularite sandstone CBA 60°
61.5	61.9	0.4	Heavy specularite sandstone
61.9	68.8	6.9	Specularite sandstone/grit
68.8	82.8	14.0	Grey sandstone/grit
82.8	122.0	39.2	Grey sandstone/arkose/grit with specularite
122.0	134.0	12.0	Grey sandstone/grit
134.0	134.2	0.2	Brown shale CBA 80°
134.2	136.8	2.6	White sandstone
136.8	166.8	30.0	Grey sandstone/grit
166.8	175.8	9.0	Arkosic grit
175.8	181.8	6.0	Grey sandstone/grit
181.8	220.8	39.0	Grey specularite grit
220.8	250.8	30.0	Cobblestone conglomerate with iron in the matrix. Band at 248.2m of weathered sst.

Table 12 Radiometric readings from EH-6

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	2.0	5.1	1.1	1024.0
1	4.0	3.8	0.0	1019.6
2	5.8	3.3	1.3	991.8
2	7.8	2.8	0.0	1017.2
3	8.5	2.0	0.9	988.7
3	11.0	2.0	1.4	1009.9
4	11.9	1.7	0.0	999.6
5	14.0	5.2	6.1	1020.2
6	18.0	4.4	12.1	1034.4
6	20.8	6.9	12.4	1042.0
7	22.8	6.6	7.5	1029.6
7	25.6	5.0	13.5	1047.8
8	26.0	7.9	12.8	1065.1
8	27.8	8.6	6.3	1040.5
9	31.8	4.1	4.7	1015.4
9	33.4	3.1	11.7	1040.2
10	36.9	2.3	6.3	1005.4
10	39.0	1.8	8.3	1026.1
11	40.8	2.3	10.2	1006.5
11	43.8	2.5	14.1	1043.0
12	46.8	3.0	8.7	1022.9
13	49.5	3.1	9.7	1029.8
13	53.0	2.2	9.2	1014.6
14	56.0	0.9	7.4	1015.8
15	59.0	3.4	7.7	1013.4
15	61.8	2.6	6.3	1025.6
16	64.8	1.7	10.8	1013.5
17	68.8	5.9	8.5	1018.9
17	71.5	3.1	11.6	1022.6
18	74.6	2.9	11.2	1010.2
18	77.0	2.8	8.2	1011.8
19	80.0	1.6	7.8	1025.1
20	82.7	2.5	10.7	1017.6
20	86.3	1.7	7.3	1020.4
21	89.0	2.2	11.2	1022.3
22	92.0	4.4	4.7	1018.0
22	95.0	3.2	7.7	1029.6
23	98.0	1.8	11.7	1005.5
23	100.7	0.3	11.4	1007.8
24	103.8	4.5	7.6	1030.3
25	106.7	2.9	16.6	1040.6
25	109.6	3.5	10.7	1026.6
26	112.0	2.4	9.3	1023.8

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
26	115.0	4.0	7.2	1019.4
27	117.8	3.2	9.2	1031.0
28	120.7	3.4	9.7	1029.2
28	123.7	3.3	10.7	1023.8
29	125.7	4.6	6.7	1028.2
29	128.4	5.4	10.5	1043.0
30	130.0	3.5	10.6	1042.6
30	132.1	2.8	8.8	1035.8
30	134.2	4.3	11.1	1053.2
31	136.0	2.6	8.3	1050.8
31	138.0	1.8	6.4	1045.1
32	139.7	3.9	8.2	1031.9
32	142.5	2.4	7.8	1042.8
33	145.1	2.7	13.2	1034.9
33	147.7	3.6	10.2	1014.4
34	150.0	3.4	9.7	1012.1
34	152.6	5.0	9.6	1017.2
35	154.7	4.1	6.7	1012.0
35	157.5	3.0	14.6	1038.8
36	159.0	3.7	11.1	1040.3
36	161.0	3.1	10.2	1032.2
37	162.7	2.5	8.8	1021.9
37	165.7	2.1	9.8	1012.7
38	167.8	3.2	7.8	1016.0
38	169.7	4.4	6.2	1036.4
39	172.0	4.0	9.2	1034.6
39	174.7	3.3	6.7	1025.7
40	176.6	2.5	6.8	1024.9
40	178.2	2.4	14.7	1021.8
41	180.8	2.2	5.4	1039.8
41	183.8	1.9	9.3	1032.2
42	186.5	2.5	7.3	1033.9
42	188.5	3.6	6.2	1038.4
43	190.3	4.0	12.6	1009.2
43	192.0	4.1	8.6	1024.2
43	194.0	5.5	7.6	1040.1
44	196.7	3.2	7.7	1025.2
45	199.4	2.3	8.8	1046.7
45	202.0	3.6	8.7	1027.6
46	204.8	3.1	6.3	1025.7
46	207.8	2.8	8.2	1008.6
47	209.8	2.2	10.7	1010.3
47	212.3	2.9	11.2	1023.6
48	213.8	1.9	7.3	1027.1

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
48	215.9	2.1	11.7	1041.1
49	217.8	2.5	9.3	1040.4
49	220.4	3.3	6.7	1039.0
50	223.0	3.9	10.2	1035.9
50	225.0	4.4	8.2	1032.2
51	226.7	3.0	11.2	1031.2
51	228.4	2.2	18.1	1043.0
51	230.3	4.9	15.5	1045.9
52	231.8	4.3	11.1	1039.3
52	233.8	4.3	14.6	1030.4
53	235.0	4.5	15.0	1037.4
53	237.0	3.7	9.7	1053.6
53	238.4	4.6	14.1	1046.6
54	240.2	1.9	16.7	1050
54	242.0	5.1	10.6	1038.5
55	244.7	3.2	11.2	1045.7
55	246.8	4.9	14.0	1031.3
56	248.3	2.9	15.2	1049.8
56	250.3	1.7	18.2	1056.2

EH-7 802506 mE 8059597 mN 174.8m asl Dec 30° Azim 60° TD 174.8m

Table 13 Condensed log of EH-7

From (m)	To (m)	Intercept (m)	Geology
0	1.0	1.0	White oxidized basalt
1.0	5.0	4.0	Grey oxidized basalt
5.0	7.0	2.0	Decomposed basalt
7.0	11.5	4.5	Brown oxidized basalt
11.5	12.0	0.5	Decomposed brown/green basalt
12.0	17.6	5.6	Brown oxidized basalt
17.6	24.0	6.4	Light brown oxidized basalt
24.0	25.0	1.0	Sheared grey/green basalt
25.0	25.7	0.7	Cream purple weathered basalt
25.7	25.9	0.2	Banded chloritic sandstone
25.9	31.8	5.9	White sandstone
31.8	32.2	0.4	Chocolate mudstone band CBA 80°
32.2	43.8	11.6	Specularite sandstone CBA 60°
43.8	50.0	6.2	White sandstone
50.0	56.0	6.0	Specularite grit
56.0	60.8	4.8	White sandstone
60.8	72.0	11.2	Specularite grit/sandstone
72.0	78.8	6.8	White sandstone
78.8	80.8	2.0	White grit
80.8	84.8	4.0	White sandstone
84.8	93.8	9.0	Specularite sandstone/grit
93.8	95.8	2.0	White sandstone
95.8	103.3	7.5	Specularite grey grit
103.3	111.8	8.5	White sandstone
111.8	128.6	16.8	Specularite sandstone
128.6	128.8	0.2	Jasper/quartz
128.8	138.8	10.0	White sandstone
138.8	151.8	13.0	Specularite sandstone/grit
151.8	155.0	3.2	Pebblestone grit
155.0	156.2	1.2	Broken quartz breccia
156.2	160.8	4.6	White leached sandstone
160.8	174.8	14.0	Specularite sandstone

Table 14 Radiometric readings from EH-7

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.0	6.1	7.5	1032.6
2	4.2	8.7	8.8	1024.3
2	7.2	4.0	9.2	1021.3
3	10.2	4.8	7.1	1022.8
4	11.5	6.6	9.4	1026.4
4	13.5	6.4	10.5	1031.9
5	15.3	5.8	7.6	1029.6
5	17.3	7.2	5.0	1018.8
6	19.0	7.5	6.4	1027.2
6	21.8	6.6	8.4	1047.5
7	23.7	10.9	8.1	1034.4
7	24.4	19.0	4.7	1065.9
7	25.3	18.7	4.7	1071.9
7	25.8	15.7	9.3	1062.0
7	26.2	21.4	5.4	1058.8
8	26.9	16.0	10.2	1050.0
8	28.0	9.4	9.7	1037.0
8	29.0	8.9	3.8	1035.1
8	29.8	6.3	5.5	1033.6
8	30.2	6.7	10.4	1016.0
9	31.2	5.9	6.5	1016.6
9	32.0	6.2	8.5	1020.4
9	34.8	4.5	5.6	1018.9
10	36.8	2.0	6.8	1008.4
10	39.8	2.8	6.7	1014.8
11	41.7	2.4	7.8	1021.2
11	43.5	1.7	8.8	1006.2
12	46.0	4.6	6.6	993.1
12	48.8	1.4	9.3	998.8
13	51.8	4.4	6.1	1011.4
13	53.7	4.5	7.6	1016.2
14	55.0	3.2	5.2	1000.2
14	56.8	2.3	11.7	1023.5
15	58.8	2.6	6.3	1030.2
15	60.7	1.2	8.8	997.3
16	63.7	3.3	10.6	1008.0
16	64.6	2.1	11.2	992.6
16	67.0	1.2	8.3	1021.3
17	68.8	1.1	7.8	1015.2
17	70.8	1.9	5.3	1006.4
18	72.7	2.9	3.8	996.8
18	76.0	1.1	7.3	1001.4
19	77.5	3.5	3.7	998.1

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
19	79.5	1.6	7.3	1001.0
20	82.0	2.5	8.7	991.4
20	84.8	2.2	14.1	1014.2
21	87.7	3.1	4.7	1008.4
21	90.0	0.5	11.8	1013.2
22	93.8	3.1	4.2	1000.2
23	95.8	1.9	5.3	1009.8
23	97.7	3.2	7.7	997.7
24	100.0	2.7	8.7	1009.1
24	103.0	3.8	8.6	1007.0
25	104.7	2.6	8.2	1007.9
25	107.7	3.1	6.2	1007.4
26	109.5	3.1	8.2	1005.5
26	112.0	2.4	13.1	1013.3
27	115.0	2.7	7.2	1001.8
27	118.0	3.2	7.2	1003.5
28	119.8	2.2	9.3	1016.8
28	121.8	2.6	8.2	1012.7
29	123.6	1.5	11.8	1019.7
29	127.0	2.3	6.3	1008.8
30	128.8	2.2	7.3	1003.7
30	130.8	2.2	8.7	1009.1
31	132.0	1.0	6.4	1008.0
31	135.7	2.8	11.6	1007.5
32	137.0	2.1	9.7	1006.7
32	140.8	1.1	11.3	1011.6
33	142.8	4.7	7.6	1002.2
33	144.7	3.1	4.8	1008.4
34	146.6	3.4	5.7	1005.8
34	150.0	0.9	8.9	998.6
35	151.8	3.4	11.1	1000.3
35	153.8	0.6	10.8	1001.6
36	155.8	1.5	8.3	1019.0
36	157.0	1.4	11.3	1021.8
36	159.0	2.5	16.1	1016.5
37	161.0	1.8	10.3	1004.1
37	162.9	1.9	12.7	1019.8
38	164.0	5.9	10.4	1025.6
38	166.0	3.5	12.6	1016.4
39	169.0	1.6	9.3	1032.1
39	171.8	3.7	5.7	1021.2
40	174.8	2.8	6.7	1007.8

EH-8 0802506 mE 8059597 mN 178.6m asl Dec 55° Azim 240° TD 178.6m

Table 15 Condensed log of EH-8

From (m)	To (m)	Intercept (m)	Geology
0	4.4	4.4	Rubbly volcanics
4.4	11.0	6.6	Amygd. Basalt
11.0	11.6	0.6	Highly altered, rubbly volcanics
11.6	14.8	3.2	Amygd. Basalt
14.8	15.0	0.2	Highly altered volcanic
15.0	30.9	15.9	Volcanics, heavily fractured at 14.8-19.8m & 25.6-27.1m
30.9	32.9	2.0	Altered green basalt
32.9	42.2	9.3	Altered volcanics-amtygd in places. 59.8 ppm U @ 41m
42.2	47.8	5.6	Altered volcanics – heavily fractured. 47.5 ppm U @ 42.5m
47.8	50.5	2.7	Sediments – highly altered and leached at 50.4m
50.5	72.3	21.8	Sediments – CBA 50-60° Moderately leached at 60.6m
72.3	101.1	28.8	Sediments – thick dark & light bands CFA 70°
101.1	110.0	8.9	Bedded sediments – CBA 50-60°
110.0	136.7	26.7	Sediments – massive, weakly leached @ 132m, strongly oxidized at 135.7m CFA 40-80°
136.7	152.0	15.3	Well bedded sediments, CBA 40-50°
152.0	178.6	26.6	Coarse massive conglomerate, pebbles to 5 cm

Table 16 Radiometric readings from EH-8

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.0	5.8	2.1	1024.4
1	4.0	1.9	0.4	999.6
2	6.0	3.2	7.7	1022.8
2	7.8	5.4	7.1	1020.5
3	10.0	5.6	5.6	1033.3
3	11.8	4.4	10.1	1035.0
4	13.6	5.7	8.6	1028.3
4	14.8	3.6	8.2	1024.2
5	15.9	4.0	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	23.0	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	37.0	9.3	1177.3
10	40.5	54.8	10.0	1216.0
10	41.0	63.3	10.9	1229.6
10	42.0	53.0	10.1	1226.9
11	44.2	25.6	9.1	1111.7
11	45.0	23.7	9.7	1107.2
11	46.5	23.8	6.8	1072.8
11	47.1	13.7	7.0	1064.3
11	48.7	12.6	7.1	1049.0
12	49.0	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	1002.0
17	75.1	2.5	4.8	1018.9
18	79.9	3.0	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

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
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	123.0	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	147.0	2.1	9.7	1012.4
33	151.8	1.5	6.4	1027.0
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	2.0	8.8	1027.0

EH-9 802579 mE 8059537 mN 210m asl Dec 45° Azim 62° TD 215m

Table 17 Condensed log of EH-9

From (m)	To (m)	Intercept (m)	Geology
0	6.0	6.0	Amygd. Basalt with some silica & chlorite
6.0	7.5	1.5	Amyg. Basalt-lower part highly altered
7.5	9.0	1.5	Red yellow siltstone with a yellow clay base
9.0	17.5	8.5	Fine sandstone. Top 30cm highly chloritised. Strong leaching on fractures CBA 80°
17.5	19.0	1.5	Fine sandstone. Broken core
19.0	56.5	37.5	Fine sandstone. Very altered at 26.5m/ specularite veining CBA 70°
56.5	59.0	2.5	Conglomerate with low angle, leached fractures
59.0	81.5	22.5	Medium grained sandstone, strong specularite veining CBA 80°
81.5	83.5	2.0	Quartz breccia – with chlorite, hematite and silicification
83.5	120.5	37.0	Quartz sandstone – some leaching & hematite
120.5	128.0	7.5	Sandstone with some sulphide mineralisation at top of section. Chalcopyrite associated with quartz
128.0	129.5	1.5	Matrix supported conglomerate CFA 30-70°
129.5	142.0	12.5	Coarse silicified sandstone, sulphide mineralisation at 132.5 & 139.7m, broken in places
142.0	185.0	43.0	Coarse sandstone, leached on fractures CFA 20-90°
185.0	196.0	11.0	Coarse sandstone CFA 0-90°
196.0	202.0	6.0	Pebble conglomerate, highly fractured CFA 20-80°
202.0	215.0	13.0	Sandstone with quartz filled fractures to 1 cm thick

Table 18 Radiometric readings from EH-9

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.5	2.0	8.8	1027.0
1	1.9	9.1	9.8	1046.2
1	3.1	10.5	14.6	1061.8
2	2.6	11.0	5.7	1036.8
2	4.9	11.7	8.1	1038.2
2	5.5	7.8	8.4	1038.0
3	6.2	7.2	6.4	1032.8
3	8.1	7.0	9.9	1041.4
3	8.9	9.2	9.2	1032.4
3	10.1	5.5	7.5	1035.3
4	10.7	5.1	8.5	1001.2
4	13.6	4.1	4.7	1017.3
5	17.1	3.3	6.7	1004.1
6	21.2	3.4	6.2	1002.3
7	24.5	4.1	6.6	1009.0
7	26.6	3.1	9.6	999.4
8	30.3	1.9	5.3	991.4
9	34.9	2.3	10.2	1024.5
10	39.5	1.1	7.8	992.8
11	42.3	2.8	6.7	1008.6
11	45.1	2.4	7.7	1013.2
12	48.9	1.8	8.3	1003.4
13	53.3	2.4	5.8	1012.2
14	57.8	4.0	9.1	1011.4
14	58.4	3.2	9.2	1016.6
15	62.3	2.0	8.8	944.7
16	66.6	2.8	4.7	1018.0
17	71.4	2.7	5.8	993.1
18	76.0	1.1	5.9	1004.4
19	79.6	0.4	14.3	1016.3
19	82.0	3.7	9.6	1016.7
20	82.8	3.4	6.2	999.6
20	85.3	2.4	5.8	1006.8
21	89.5	1.2	10.3	1005.4
22	93.0	3.2	7.2	994.5
22	95.1	1.5	6.3	1008.0
23	98.4	3.8	7.2	1011.5
24	103.0	2.8	6.7	1013.6
25	105.7	2.2	7.3	1018.1
25	108.3	3.3	6.7	1020.0
26	112.0	1.5	6.8	1005.0
27	114.7	3.9	8.1	999.8
27	116.5	5.7	8.0	1029.8

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
27	118.3	2.0	8.8	1005.9
28	121.0	3.7	4.2	1029.6
29	124.0	2.8	6.2	1024.0
29	125.5	2.2	9.2	1015.2
30	128.5	1.7	10.8	1020.7
30	130.7	2.8	6.7	1001.5
31	133.4	4.6	5.1	997.2
31	135.0	1.9	7.3	999.4
32	138.0	2.8	8.2	1016.2
32	139.6	0.7	8.4	1004.3
33	143.4	2.0	8.8	1003.3
34	148.2	1.1	7.8	1016.7
35	153.0	1.4	3.9	1006.8
36	157.4	3.3	6.7	1007.8
37	160.7	1.2	8.3	1014.5
37	163.0	2.7	5.8	1014.4
38	166.3	2.3	10.2	1019.6
39	170.8	1.8	0.9	981.4
40	175.4	2.8	0.8	993.1
41	180.0	2.3	0.8	990.8
42	184.5	2.5	1.3	1000.2
42	186.0	2.2	7.3	1017.9
43	188.7	1.0	10.3	1018.1
44	193.4	2.5	12.2	1037.8
45	197.2	1.3	11.8	1020.1
46	201.7	2.7	12.7	1031.6
46	205.0	1.3	13.3	1027.8
47	207.4	3.1	9.7	1026.0
48	212.1	3.1	12.1	1025.0
49	214.0	1.7	8.8	1010.0

EH-10 802579 mE 8059537 mN 210m asl Dec 30° Azim 62° TD 121.3m

Table 19 Condensed log of EH-10

From (m)	To (m)	Intercept (m)	Geology
0	4.6	4.6	Amygdaloidal volcanics
4.6	6.0	1.4	Amygdaloidal volcanics with more chlorite
6.0	8.6	2.6	Siltstone with a high clay content
8.6	16.7	8.1	Sandstone with the top metre heavily leached/ small hematite veins
16.7	31.3	14.6	Sandstone CBA 60° top metre chloritised/hematite veinlets
31.3	106.3	75.0	Sandstone CBA 70°, quartz veinlets throughout
106.3	121.3	15	Altered sandstone – highly fractured with fault gouge

Table 20 Radiometric readings from EH-10

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.4	6.8	8.0	1048.5
	3.2	7.2	8.4	1028.0
	4.5	9.9	16.6	1052.4
2	6.1	12.1	9.1	1067.2
	7.4	13.4	9.0	1062.5
	7.8	17.2	4.7	1091.8
	8.2	16.5	5.3	1074.5
	8.6	10.4	9.7	1034.8
	9.7	13.0	8.0	1042.8
3	10.4	7.4	6.9	1020.9
	12.5	4.9	8.1	1018.8
4	16.9	5.7	6.5	1015.1
	19.4	3.0	6.7	1033.3
5	21.7	2.9	3.8	1005.4
6	26.3	4.0	5.2	1008.6
7	29.0	2.5	8.7	1015.5
	32.3	3.2	5.7	1002.5
8	36.3	1.9	9.3	1011.6
9	40.9	2.9	4.3	1012.6
10	45.6	2.4	7.3	1007.6
11	50.3	2.0	5.3	1002.2
12	54.1	3.1	4.7	1006.9
	55.7	2.7	5.8	1023.4
13	59.3	3.0	5.2	1020.6
14	64.2	1.7	10.8	1009.8
15	68.8	1.0	6.4	1021.0

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
16	73.4	3.9	4.2	1031.2
17	77.3	3.6	6.7	1019.0
	79.7	1.4	8.8	986.3
18	82.6	1.2	10.8	1010.1
19	85.0	0.6	5.4	1011.3
	88.7	1.4	10.8	1001.4
20	91.2	2.8	8.2	1023.3
21	95.8	0.4	8.9	1006.0
22	98.6	2.0	10.2	1007.4
	101.4	2.6	9.7	1003.7
23	105.2	2.8	6.8	1012.6
23	107.4	3.3	12.7	1038.4
24	109.1	4.3	10.6	1022.2
	111.3	2.1	17.1	1033.6
25	114.2	1.3	10.3	1030.6
26	116.7	2.7	9.2	1025.4
	120.3	2.6	10.2	1027.8

EH-11 802652 mE 8059538 mN 205m asl Dec 60° Azim 242° TD 150.2

Table 21 Condensed log of EH-11

From (m)	To (m)	Intercept (m)	Geology
0	2.0	2.0	Sandstone – rubbly & broken CFA 45-90°
2.0	7.5	5.5	Sandstone – very broken CFA 45-90°
7.5	11.8	4.3	Sandstone – veinlets in fractures CFA 45-90°
11.8	18.8	7.0	Sandstone – highly fractured CFA 20-90°
18.8	61.3	42.5	Sandstone – clay alteration in fractures. Stockwork @ 50.5 CFA 45-80°
61.3	65.3	4.0	Sandstone with hematite & quartz veinlets CFA 10-90°
65.3	70.8	5.5	Sandstone
70.8	76.8	6.0	Sandstone with sulphides at 73m-pyrite/ hematite staining
76.8	129.0	52.2	Sandstone – top 30 cm strongly leached/strong leaching & fracturing at 93.0- 93.5m CFA 30-90°
129.0	130.8	1.8	Sandstone – brecciated CFA 45-90°
130.8	150.2	19.4	Sandstone – leached @ 138m and on fractures CFA 45-80°

Table 22 Radiometric readings from EH-11

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.5	1.0	8.3	1018.2
	2.6	3.3	12.1	1021.7
2	4.3	1.3	11.8	1019.6
	7.0	2.0	8.3	1014.6
3	8.6	1.7	11.9	1024.5
	10.0	1.7	10.2	1006.5
4	11.7	4.4	6.1	1015.3
5	13.0	4.9	8.0	1020.0
	15.0	4.8	3.6	1009.5
6	16.4	2.2	8.7	1006.8
	19.2	3.4	7.7	1012.4
7	23.0	4.3	10.5	1019.3
8	27.3	3.1	9.7	1003.8
9	32.0	1.7	8.8	1018.7
10	36.6	4.3	9.1	1019.4
11	39.5	2.4	9.2	1009.8
	42.2	2.5	8.7	1025.3
12	45.8	2.6	13.1	1025.4
13	50.4	2.9	3.8	1020.4
14	55.0	2.4	7.2	1013.4
15	58.5	2.0	8.3	1012.4
	62.0	3.2	7.7	1015.9
16	63.9	5.6	5.1	1002.4
	63.5	1.5	8.3	1008.4
	65.8	2.9	9.7	1013.3
17	70.3	4.1	6.6	1011.7
18	72.5	2.6	5.7	1013.6
	77.0	1.1	10.8	1018.9
19	81.8	2.8	6.2	1005.4
20	86.0	3.0	8.7	1010.4
21	90.7	4.3	3.7	1009.2
22	93.1	2.9	7.7	1022.3
	96.1	1.3	9.8	1005.6
23	99.8	1.0	9.8	1019.0
24	105.1	2.6	6.3	994.5
25	108.8	1.8	8.3	1009.6
26	123.6	3.6	6.2	1004.0
27	118.1	1.6	9.3	1002.3
28	120.8	1.3	7.8	1009.5
	123.7	2.0	6.8	1002.4
29	127.2	2.4	5.8	1008.5
30	129.7	2.7	8.7	1007.4
	132.8	1.0	11.8	1004.8

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
31	136.4	1.6	3.9	1009.3
32	140.9	1.9	5.3	1008.3
33	145.3	3.1	6.2	1015.1
34	148.1	2.8	6.7	1027.2
	149.8	2.5	8.7	1008.5

EH-12 0802810 mE 8059342mN 198m asl Dec 60° Azim 245° TD 100.8m

Table 23 Condensed log of EH-12

From (m)	To (m)	Intercept (m)	Geology
0	0.2	0.2	Sandstone
0.2	4.0	3.8	Sandstone CBA 50°
4.0	7.6	3.6	Sandstone – intensely fractured CFA 50-60°
7.6	8.5	0.9	Sandstone
8.5	22.7	14.2	Sandstone CFA 40-70°
22.7	24.2	1.5	Sandstone – altered/intense fracturing @ 23.7m
24.2	28.5	4.3	Sandstone – hematite @ 30m CFA 30-70°
28.5	29.3	0.8	Sandstone CBA 60-70°
29.3	34.9	5.6	Sandstone
34.9	35.6	0.7	Sandstone
35.6	49.6	14.0	Sandstone – intense fracturing at 41.6, 44.9, 46.8 & 53.8m & from 51.4-51.8 & 67.4-67.6m
49.6	55.6	6.0	Sandstone
55.6	55.8	0.2	Bedded sandstone CBA 70°
55.8	68.2	12.4	Sandstone with fracturing & leaching @ 57.0-57.5 & 63.2-63.6m
68.2	71.3	3.1	Conglomerate CFA 70°
71.3	82.8	11.5	Sandstone with hematite at 75.2m
82.8	100.8	18.0	Coarse grained sandstone CFA 40-70°

Table 24 Radiometric readings from EH-12

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.5	2.4	4.2	1028.1
	3.4	1.4	12.7	1029.8
2	4.5	2.3	10.2	1018.8
3	7.2	5.5	8.0	1031.7
	10.2	3.6	11.6	1011.2
4	12.8	3.6	6.7	1017.2
5	17.8	2.0	12.2	1018.0
6	22.1	0.9	14.3	997.0
7	25.1	4.0	9.1	1020.1
	29.2	2.6	13.1	1015.3
8	31.9	1.3	15.2	1017.3
9	35.2	1.7	12.2	1012.4
	37.5	2.0	8.3	1008.4
10	41.2	3.2	5.7	1014.0
11	46.0	1.1	9.3	1007.4
12	50.8	2.8	12.1	1004.1
13	54.3	2.3	4.7	1009.4
14	59.8	1.8	4.9	1011.2
15	64.4	2.7	5.8	1000.2
16	68.4	2.5	5.3	995.7
17	73.6	2.2	6.8	990.4
18	76.3	1.8	7.3	1006.8
19	Illegible			
20	87.4	2.2	10.7	945.6
21	92.0	1.2	10.3	1000.4
22	95.8	2.7	5.8	1005.6
	98.9	2.1	5.8	1018.8
23	100.6	2.5	7.3	1002.9

EH-13 802801 mE 8059337 mN 198m asl Dec 30° Azim 245° TD 90m

Table 25 Condensed log of EH-13

From (m)	To (m)	Intercept (m)	Geology
0	1.0	1.0	Rubble sandstone
1.0	9.5	8.5	Altered sandstone CFA 50-70°
9.5	11.4	1.9	Sandstone with silica veins & hematite, intense fracturing from 10.7-11.1m
11.4	25.1	13.7	Sandstone with intense fracturing from 13.0-13.5, 17.5-17.7 & 18.0-18.7m
25.1	42.4	17.3	Sandstone which is more fractured than above, oxidized from 40.3-40.6m
42.4	61.2	18.8	Sandstone
61.2	66.0	4.8	Sandstone with cross cutting fractures CFA 60°
66.0	90.0	24.0	Sandstone

Table 26 Radiometric readings from EH-13

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.5	2.9	13.1	1005.6
	3.8	2.2	10.7	1031.6
2	5.3	3.6	8.7	1031.6
	8.0	2.1	11.2	1036.5
3	9.6	3.1	8.2	1036.8
	12.6	3.8	8.7	1028.8
4	16.0	2.3	11.7	1043.7
5	18.7	3.9	8.1	1025.0
	20.6	1.4	14.2	1024.0
	21.6	4.2	6.2	1022.3
6	25.3	1.3	8.3	1000.2
7	28.0	0.3	9.9	1011.6
	31.7	3.2	7.2	1036.6
8	34.4	2.6	8.3	1017.0
9	37.2	3.5	12.6	1007.1
	40.2	2.1	11.2	1019.2
10	41.5	1.4	12.7	1000.4
	45.6	2.0	8.3	1019.2
11	48.5	2.9	9.2	1006.8
12	53.0	0.8	11.3	1019.1
13	56.5	2.7	11.2	1008.8
	59.5	3.8	10.1	1009.1
14	62.4	2.8	6.2	1003.0
15	67.0	1.0	8.3	1008.6
16	69.7	1.7	7.3	1016.2

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
	72.4	1.6	11.3	1015.9
17	76.0	1.3	7.8	1010.0
18	80.8	1.3	11.3	986.6
19	83.6	3.9	6.2	991.8
	86.5	2.5	8.7	1020.1
20	89.1	2.7	5.8	1017.0

EHS-1 802969 mE 8059116 mN 187m asl Dec 75° Azim 245° TD 151.2

Table 27 Condensed log of EHS-1

From (m)	To (m)	Intercept (m)	Geology
0	0.7	0.7	Rubble
0.7	3.7	3.0	Altered sandstone with altered band from 2.3-2.4m
3.7	4.4	0.7	Sandstone CBA 60°
4.4	5.8	1.4	Sandstone
5.8	7.2	1.4	Sandstone CBA 50-70°
7.2	87.8	80.6	Sandstone strongly fractured and leached at 11.6, 13.2-13.7, 19.0-19.1, 33.7, 45.0, 57.7 & 58.7, 82.0-82.3, 84.5-84.6 & 85.2m. Cobbles to 10 cm.
87.8	96.9	9.1	Coarse sandstone with X-cutting silica veins
96.9	133.9	37.0	Sandstone CBA 70°
133.9	151.2	17.3	Sandstone CBA 20-70° - cobbles to 15 cm.

Table 28 Radiometric readings from EHS-1

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	0.5	3.7	9.1	1014.8
	3.5	0.4	12.3	1020.6
2	5.1	2.0	13.7	1027.6
3	7.9	2.4	13.2	1022.3
4	10.8	1.8	9.8	1011.7
	14.5	4.1	13.5	1020.3
5	17.7	3.7	13.1	1029.2
6	20.0	2.6	15.1	1019.1
	23.5	2.6	15.1	1034.0
7	25.3	3.2	9.2	1012.0
	28.2	3.8	16.0	1023.9
8	31.8	2.5	12.2	1022.9
9	35.5	2.9	16.6	1022.4
	38.4	2.0	13.7	1015.8
10	41.4	1.3	13.2	1032.0
11	45.0	1.2	16.2	1012.4
	47.8	2.5	19.5	1040.2
12	50.7	3.1	15.1	1027.4
13	55.6	2.4	7.8	1009.3
14	60.2	3.5	11.1	1023.9
15	62.7	2.7	11.2	1008.1
	65.8	2.0	8.3	1021.5
16	68.5	5.1	10.5	1014.5
	70.2	2.1	11.2	1016.0
	71.4	3.9	8.1	995.3
17	74.5	2.8	8.7	1007.2
18	78.8	1.3	11.3	1014.8
19	81.7	3.9	6.2	1003.7
	85.5	2.4	12.7	1014.2
20	88.7	4.1	8.1	996.7
	89.6	1.7	8.8	1010.1
21	92.4	2.3	4.3	1017.0
22	96.7	1.8	9.7	1009.0
23	101.5	2.1	7.5	1016.6
24	104.6	2.7	11.2	1014.3
	107.4	1.8	7.8	997.2
25	Not used			
26	110.9	3.2	5.7	1002.9
27	115.7	3.2	5.7	1017.4
28	119.4	1.5	4.9	1005.6
	122.4	2.4	7.2	1008.4
29	125.4	1.5	6.8	1017.6
30	128.4	1.2	8.3	1014.4

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
	131.8	2.1	5.8	981.4
31	134.7	0.9	6.9	995.0
32	139.4	1.9	13.2	1021.3
33	143.9	4.0	7.1	1006.0
34	147.6	2.0	14.2	1021.3
35	151.1	2.9	11.2	1008.1

EHS-2 802969 mE 8059116 mN 187m asl Dec 55° Azim 245° TD 175.4m

Table 29 Condensed log of EHS-2

From (m)	To (m)	Intercept (m)	Geology
0	4.5	4.4	Coarse sandstone CBA 60° CFA 50-60°
4.5	5.8	1.3	Coarse sandstone CBA 50-60°
5.8	15.5	9.7	Sandstone CBA 50-60°
15.5	15.9	0.4	Sandstone CFA 30-60°
15.9	29.4	13.5	Sandstone CBA 60°
29.4	66.4	37.0	Sandstone CBA 50-60°
66.4	67.9	1.5	Coarse sandstone – fracture zone
67.9	87.3	19.4	Sandstone CBA 50-70°
87.3	131.8	44.5	Sandstone CBA 60° Leached black mineral with iridescent sheen from 109.9-111.4m
131.8	147.0	15.2	Sandstone – as above CBA 10-70°
147.0	154.3	7.3	Sandstone
154.3	175.4	21.1	Sandstone/Conglomerate

Table 30 Radiometric readings from EHS-2

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
1	1.0	2.3	13.7	1011.6
	4.3	1.9	8.8	1021.4
2	5.6	2.8	12.2	1020.0
3	6.8	1.6	13.2	1011.2
	9.7	1.4	12.8	1035.4
4	12.3	2.7	10.7	1028.3
5	14.8	3.3	10.1	1017.0
	19.6	3.2	7.2	1001.2
6	23.3	2.7	12.7	1034.1
7	26.0	1.8	9.8	1026.8
8	30.8	4.2	17.0	1013.3
	29.4	0.3	18.2	1026.6
9	33.7	2.2	9.3	1018.0
	36.4	1.6	14.7	1010.5
10	40.1	0.9	14.3	1012.0
11	44.8	5.2	15.4	1011.2

Core Tray	Depth (m)	U (ppm)	Th (ppm)	CPS
	43.0	2.3	11.7	1023.0
12	47.7	2.3	13.7	1018.8
	50.6	2.6	13.7	1012.1
13	54.1	3.1	9.7	1006.1
14	59.0	4.4	11.5	1018.0
	60.5	4.8	9.1	1022.7
15	63.4	2.6	15.6	1021.0
16	65.9	1.1	11.3	1037.3
	68.7	2.4	7.8	1006.0
17	72.4	3.2	7.7	996.8
18	75.1	2.4	7.8	1012.2
	78.0	0.8	7.9	1004.0
19	81.4	3.2	5.7	997.2
20	86.4	2.0	6.8	1008.8
21	89.9	1.8	4.3	991.8
	92.6	2.1	2.4	995.2
22	95.4	0.4	6.9	1021.1
23	99.9	0.6	7.4	996.2
24	102.4	1.2	10.3	1007.6
	105.6	3.3	8.6	1007.8
25	107.4	2.5	8.7	998.8
	110.4	0.7	6.4	998.5
26	114.0	4.7	5.6	995.2
	116.8	1.5	6.3	991.9
27	119.7	3.3	14.1	1003.0
28	123.4	3.9	6.1	1012.5
29	128.4	2.8	8.2	1004.5
30	132.2	0.5	7.9	1000.6
	134.8	2.3	8.2	1015.4
31	137.9	3.1	6.2	1005.0
32	141.8	4.3	6.6	996.4
	144.3	2.6	6.3	1017.4
33	147.4	4.0	5.7	1002.2
34	150.9	1.7	8.8	1014.5
	153.0	3.6	11.6	1015.7
35	156.6	2.4	9.7	1016.2
36	160.9	0.5	11.4	1022.4
37	165.4	3.0	4.2	1018.3
38	168.7	2.4	12.7	1011.6
	171.5	2.5	8.7	1002.9
39	174.6	3.8	8.6	1024.4

The most interesting intersections from the spectrometer readings on the drill core would appear to be:

For Uranium

- EH-1 0-21m = 21m @ +14 ppm Basal Seigal Volcanics to the WC contact
- EH-7 24-27m = 3m @ +15 ppm “
- EH-8 38-46 = 8m @ 24-63 ppm “

For Thorium

- EH-2 166-176 = 10m @ +13 ppm Specularite sandstone with gritty sections
- EH-6 228-250 = 22m @ mostly >14 ppm Cobblestone Conglomerate
- EHS-1 5-50 = 45m @ mostly >13 ppm All sandstone/less than complete log
- EHS-2 31-50 = 19m @ mostly 13-18 ppm “

The drilling seems to show that:

- The U is associated with the basal Seigal Volcanic-Westmoreland Conglomerate unconformity
- The Th is probably associated with conglomerate lenses in the Westmoreland Conglomerate, but this is not universally so.

I hope you find this summary useful.

Kind regards,

Russ Lord