



## FURTHER RESULTS EXTEND BARLEE MINERALISED PROVINCE

### ASX RELEASE

### Stock Exchange

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Dear Sir/Madam

### FURTHER RESULTS EXTEND BARLEE MINERALISED PROVINCE

The company is pleased to announce remaining drilling results from the program completed in Mid-December 2009 at the Barlee Gold Project. A total of 26 RC holes and 157 RAB holes for 7500m were completed. The RAB program was terminated early due to the Christmas break and will be incorporated as part of a larger regional program ( plus 15,000 metres of drilling and geochemical sampling ) currently being planned for February 2010 .

The RC results are from drilling completed at Halleys West, Phil (South & North) and Crabman South, with significant intersections being returned from all areas. Assays received include:

#### Halleys West

- 5m @ 14.12 g/t Au
- 7m @ 3.10 g/t Au

The Halleys West results are significant in extending mineralisation in the Halleys West zone and follow previous results obtained from the recent drilling program announced in mid December of **6m @ 6.16 g/t Au and 14m @ 45.32 g/t Au.**

#### Phil South & North

- 4m @ 9.56 g/t Au
- 5m @ 6.05 g/t Au
- 3m @ 6.70 g/t Au
- 7m @ 3.21 g/t Au

#### Crabman South

- 3m @ 9.36 g/t Au
- 11m @ 1.41 g/t Au
- 9m @ 1.28 g/t Au

All drilling results from this program are not included in the initial resource statement issued in December 2009 and clearly indicate the potential for further aggressive exploration to substantially increase the base JORC resource figure.



## FURTHER RESULTS EXTEND BARLEE MINERALISED PROVINCE ( cont )

RAB drilling was completed at prospects including Halleys North East, Phil South West, GLR, Prince, Lost Bolt and several other regional prospects. Significant assays received include:

### **Halleys North East**

- 27m @ 0.65 g/t Au ( inc. 8m @ 1.5 g/t Au )
- 13m @ 0.35 g/t Au
- 8m @ 0.39 g/t Au

The anomalous surface mineralisation of Halleys North East has now been extended to over 1 Kilometre in length and is still open along strike and at depth. Results obtained from RAB drilling are similar to those obtained from Halleys East, which provided an RC drill target and eventually led to the initial base resource.

### **Phil South West**

- 24m @ 0.63 g/t Au ( inc. 4m @ 1.63 g/t Au )

### **Prince**

- 20m @ 0.58 g/t Au ( inc. 4m @ 1.62 g/t Au )

The Company is extremely excited with these regional exploration results and plans further target definition as a priority in the upcoming program. Beacon has sufficient cash in bank to fully fund all exploration over the coming year.

Should you have any questions in relation to the above matters, please contact the undersigned on telephone (08) 9476 9200.

For and on behalf of  
BEACON MINERALS LIMITED

**Darryl Harris**  
**Managing Director**

### **Attachments**

- 1 – RC and RAB Drilling Details
- 2 – RC Drilling Results
- 3 – RAB Drilling Results
- 4 – Prospect Location Plan
- 5 – Collar Location Map – Halleys East & Halleys NE
- 6 – Collar Location Map – Prince & Crabman South
- 7 – Collar Location Map – Phil SW & Phil

## Attachment 1 – RC and RAB Drilling Details

### RC Drilling

At **Halleys West**, a further five holes (BRC143-144, 150-152) were completed to better define the geology and high grade intercepts observed in **BRC134 (6m @ 6.16 g/t Au)** and **BRC135 (14m @ 45.32 g/t Au)** which were reported to the ASX in December 2009.

Interpretation of the results and geology from BRC 134 and 135 suggested that the Halleys West zone may be oblique to the broad northeasterly trend of mineralisation within the Halleys Shear Zone. As such three holes (BRC150-152) were drilled at a different orientation (-60/270°) to the usual drill orientation utilised at Halleys East to clarify the geometry of the high grade mineralised zone. Significant results were received from BRC 152 including **7m @ 3.1 g/t Au (from 64m)** and **5m @ 14.12 g/t Au (from 124m)**. The geometry of the Halley's West zone requires further geological interpretation and drilling in order to gain a better understanding of the extent and significance of this high grade mineralised zone.

Drilling at **Phil South** was designed to extend the interpreted SW plunging mineralised zone. A total of seven holes (BRC145-149, 153-154) were completed. The distinctive laminated cherty-sulphide zone was intersected in several holes with significant results of **4m @ 9.56 g/t Au (inc. 1m @ 33.47 g/t Au from 108m)** in BRC149, **5m @ 6.05 g/t Au (inc. 2m @ 14.25 g/t Au from 80m)** and **3m @ 6.7 g/t Au (inc. 1m @ 15.47 g/t Au)** in BRC155 and **3m @ 3.69 g/t Au (from 85m)** in BRC 148. The Phil South mineralised zone is still open and further drilling is planned.

At **Phil North**, two holes (BRC155 & 156) were drilled to extend the broadly defined mineralisation to the south west. A significant result of **7m @ 3.21 g/t Au (inc. 2m @ 8.8 g/t Au from 87m)** was intersected in BRC 156, leaving the Phil North Zone open in all directions. Further drilling is also a priority at Phil North.

A total of four RC holes were completed at the **Crabman South** Prospect to further test the encouraging mineralisation received from the single drill hole (BRC 121) completed in August 2009. Three of the four holes returned mineralised intercepts including **11m @ 1.41 g/t Au (from 41m)** and **9m @ 1.28 g/t Au (from 54m)** in BRC 140, **3m @ 9.36 g/t Au (inc. 1m @ 21.4 g/t Au from 92m)** in BRC 142 and **4m @ 1.64 g/t Au (from 84m)** in BRC 139. Geological interpretation is continuing and further drilling is planned at Crabman South in early 2010.

All results at +0.5 g/t Au are included as Attachment 2.

### RAB Drilling

A number of areas were targeted and included continuing exploration at existing prospects as well as initial drilling of regional areas. A total of 157 vertical holes were completed, however, part of the planned program aimed at extending the Halley's NE anomalism to the northeast was postponed due to the Christmas break and will be completed with aircore drilling in future exploration campaigns.

At Halleys NE, assays received from the RAB drilling returned several significant results including **27m @ 0.65 g/t Au (from 16m ; inc. 8m @ 1.5 g/t Au)** in BRB 866, **13m @ 0.35 g/t Au (to EOH)** in BRB868 and **11m @ 0.2 g/t Au (to EOH)** in BRB873.

The Halleys NE prospect can now be traced for over 1000m (at +0.1 g/t Au) and is open along strike and at depth. The mineralisation is within the oxide profile and lies proximal to the interpreted sheared granite-mafic contact, trending northeast. The company considers the results from Halleys NE to be highly encouraging, and further RAB-Aircore drilling along strike to define RC targets is a priority for upcoming drill programs.

A single line of RAB completed ~ 400m south east of the Halleys NE prospect returned anomalous gold (+0.1 g/t Au) in all of the six holes drilled, with a best result of **8m @ 0.39 g/t Au** in BRB864 in mafic saprolite at the end of the drill line. A location map is presented as Attachment 4.

At the **Prince** Prospect, infill RAB drilling to the southwest along the interpreted mineralised shear zone returned **20m @ 0.58 g/t Au ( from 8m; inc. 4m @ 1.6 g./t Au)** in BRB846 which is open along strike. Further RAB drilling is planned.

Further infill/extensional drilling at **Phil SW** returned several anomalous results including **24m @ 0.63 g/t Au (from 20m; inc. 4m @ 1.6 g/t Au)** in BRB900 and has extended the anomalous zone (at +0.1 g/t Au) to the south west.

Drilling at other targets including GLR and Lost Bolt also returned anomalous results, which have extended the anomalous zones and further drilling is being planned at these areas. All results at +0.1 g/t Au are presented in Attachment 3.

## Attachment 2 – RC Drilling Results

Hole ID	East	North	Area	Az/Dip	Total Depth	From	To	Intercept	g/t gold
BRC136	703239	6737636	Halleys East	320/-60	110	19	20	1m	@ 0.68
BRC137	703277	6737590	Halleys East	320/-60	120	30	31	1m	@ 0.52
BRC137						32	33	1m	@ 0.57
BRC137						41	48	7m	@ 0.96
BRC137						52	53	1m	@ 0.51
BRC138	703261	6737610	Halleys East	320/-60	120	20	21	1m	@ 0.62
BRC138						27	28	1m	@ 2.02
BRC138						36	38	2m	@ 1.50
BRC139	702542	6736895	Crabman Sth	146/-60	150	17	18	1m	@ 0.69
BRC139						22	23	1m	@ 0.52
BRC139						30	31	1m	@ 0.56
BRC139						84	88	4m	@ 1.64
BRC139						100	102	2m	@ 0.88
BRC139						115	116	1m	@ 1.62
BRC140	702524	6736854	Crabman Sth	140/-60	129	20	21	1m	@ 0.63
BRC140						27	30	3m	@ 0.51
BRC140						33	39	6m	@ 1.10
BRC140						41	52	<b>11m</b>	<b>@ 1.41</b>
BRC140						54	63	<b>9m</b>	<b>@ 1.28</b>
BRC140						67	68	1m	@ 3.60
BRC140						107	108	1m	@ 0.69
BRC142	702481	6736844	Crabman Sth	140/-60	138	21	24	3m	@ 0.87
BRC142						30	31	1m	@ 0.69
BRC142						35	36	1m	@ 2.22
BRC142						64	65	1m	@ 1.10
BRC142						85	86	1m	@ 4.58
BRC142						92	95	<b>3m</b>	<b>@ 9.36</b>
BRC142						92	93	<b>inc 1m</b>	<b>@ 21.40</b>
BRC142						113	116	3m	@ 0.67
BRC142						119	120	1m	@ 1.01
BRC145	702932	6739200	Phil South	320/-60	120	21	22	1m	@ 0.73
BRC145						27	28	1m	@ 0.52
BRC145						43	44	1m	@ 0.58
BRC145						109	111	2m	@ 1.92
BRC146	702945	6739185	Phil South	320/-60	160	1	2	1m	@ 0.79
BRC146						57	58	1m	@ 0.67
BRC146						65	67	2m	@ 1.10
BRC147	702947	6739213	Phil South	320/-60	120	74	75	1m	@ 0.75
BRC147						86	89	3m	@ 0.88
BRC147						117	118	1m	@ 1.48
BRC148	702960	6739198	Phil South	320/-60	160	85	88	<b>3m</b>	<b>@ 3.69</b>
BRC148						101	102	1m	@ 0.60
BRC148						111	112	1m	@ 1.56
BRC149	702971	6739207	Phil South	320/-60	180	108	112	<b>4m</b>	<b>@ 9.56</b>
BRC149						110	111	inc 1m	@ 33.47
BRC149						128	131	3m	@ 0.97
BRC149						135	136	1m	@ 2.11
BRC150	703203	6737632	Halleys West	270/-60	80	16	17	1m	@ 0.64
BRC151	703211	6737600	Halleys West	270/-60	100	34	36	2m	@ 1.18
BRC152	703225	6737567	Halleys West	270/-60	140	45	46	1m	@ 0.70
BRC152						58	62	4m	@ 1.29
BRC152						64	71	<b>7m</b>	<b>@ 3.10</b>
BRC152						85	86	1m	@ 1.39

BRC152						114	115	1m	@ 1.24
BRC152						124	127	<b>5m</b>	<b>@ 14.12</b>
BRC152						124	126	2m	<b>@33.80</b>
BRC153	702984	6739231	Phil South	320/-60	180	116	117	1m	@ 0.74
BRC153						127	131	4m	@ 1.50
BRC153						136	137	1m	@ 1.10
BRC153						141	142	1m	@ 0.90
BRC154	702974	6739274	Phil South	320/-60	150	80	85	<b>5m</b>	<b>@ 6.05</b>
BRC154						80	82	<b>inc 2m</b>	<b>@ 14.25</b>
BRC154						88	89	1m	@ 0.55
BRC154						95	98	<b>3m</b>	<b>@ 6.70</b>
BRC154						96	97	<b>inc 1m</b>	<b>@ 15.47</b>
BRC154						116	117	1m	@ 0.99
BRC156	702975	6739367	Phil North	320/-60	160	59	63	4m	@0.86
						69	71	1m	@2.53
						75	76	1m	@0.56
						81	84	3m	@0.57
						87	94	<b>7m</b>	<b>@3.21</b>
						87	89	<b>2m</b>	<b>@8.83</b>
						121	122	1m	0.69

Results calculated at + 0.5 g/t Au, with a maximum of 2 meters internal dilution.

Repeat assays averaged.

Samples collected as single meter samples from cone splitter via cyclone mounted on drill rig.

Duplicate and certified standard samples inserted routinely.

Assays sent to Ultratrace Laboratories in Perth. Gold & PGE determination via Fire Assay-ICP / OES

### Attachment 3 – RAB Drilling Results

Hole ID	Area	East	North	Az/Dip	Total Depth	From	To	Intercept	g/t gold	Comments
BRB761	Lost Bolt	701250	6731550	0/-90	64	28	32	4m	@ 0.27	
BRB801	GLR	701800	6736080	0/-90	29	12	29	17m	@ 0.20 (EOH)	weighted average
BRB805	GLR	702200	6736080	0/-90	28	16	20	4m	@ 0.11	
BRB846	Prince	702250	6736900	0/-90	31	8	28	<b>20m</b>	<b>@ 0.58</b>	
BRB846						20	24	<b>inc 4m</b>	<b>@ 1.62</b>	
BRB851	Prince	702350	6737000	0/-90	36	24	28	4m	@ 0.10	
BRB860	Halley's NE	703900	6737550	0/-90	36	24	32	8m	@ 0.16	
BRB861	Halley's NE	703950	6737550	0/-90	26	0	4	4m	@ 0.21	
BRB861						16	26	10m	@ 0.16 (EOH)	weighted average
BRB862	Halley's NE	704000	6737550	0/-90	31	0	4	4m	@ 0.12	
BRB863	Halley's NE	704050	6737550	0/-90	28	0	4	4m	@ 0.18	
BRB864	Halley's NE	704100	6737550	0/-90	26	0	8	<b>8m</b>	<b>@ 0.39</b>	
BRB866	Halley's NE	703550	6737750	0/-90	43	16	43	<b>27m</b>	<b>@ 0.65 (EOH)</b>	weighted average
BRB866						24	32	<b>inc 8m</b>	<b>@ 1.5</b>	
BRB867	Halley's NE	703600	6737750	0/-90	38	12	28	16m	@ 0.17	
BRB867						36	38	2m	@ 0.13 (EOH)	
BRB868	Halley's NE	703650	6737750	0/-90	37	24	37	13m	@ 0.35 (EOH)	weighted average
BRB870	Halley's NE	703750	6737750	0/-90	43	32	43	11m	@ 0.12 (EOH)	weighted average
BRB871	Halley's NE	703800	6737750	0/-90	35	20	24	4m	@ 0.12	
BRB871						32	35	3m	@ 0.12 (EOH)	
BRB872	Halley's NE	703850	6737750	0/-90	30	20	24	4m	@ 0.12	
BRB873	Halley's NE	704050	6737950	0/-90	35	24	35	<b>11m</b>	<b>@ 0.20 (EOH)</b>	weighted average
BRB877	Halley's NE	703850	6737950	0/-90	29	28	29	1m	@ 0.13 (EOH)	
BRB878	Halley's NE	703800	6737950	0/-90	41	32	36	4m	@ 0.25	
BRB888	Halley's NE	704200	6738050	0/-90	39	36	39	3m	@ 0.11 (EOH)	
BRB894	Halley's NE	704350	6738150	0/-90	32	20	24	4m	@ 0.17	
BRB898	Phil SW	702900	6738950	0/-90	48	4	8	4m	@ 0.10	
BRB899	Phil SW	702850	6738950	0/-90	36	0	8	8m	@ 0.25	
BRB900	Phil SW	702750	6738950	0/-90	44	20	44	<b>24m</b>	<b>@ 0.63 (EOH)</b>	
BRB900						24	28	<b>inc 4m</b>	<b>@ 1.63</b>	
BRB901	Phil SW	702700	6738950	0/-90	24	0	4	4m	@ 0.13	
BRB901						20	24	4m	@ 0.20 (EOH)	
BRB907	Phil SW	702400	6738950	0/-90	20	16	20	4m	@ 0.21 (EOH)	

Results calculated at + 0.1 g/t, with maximum of 1 sample internal dilution.

Repeat assays averaged.

Samples collected as composite samples to a maximum of 4m

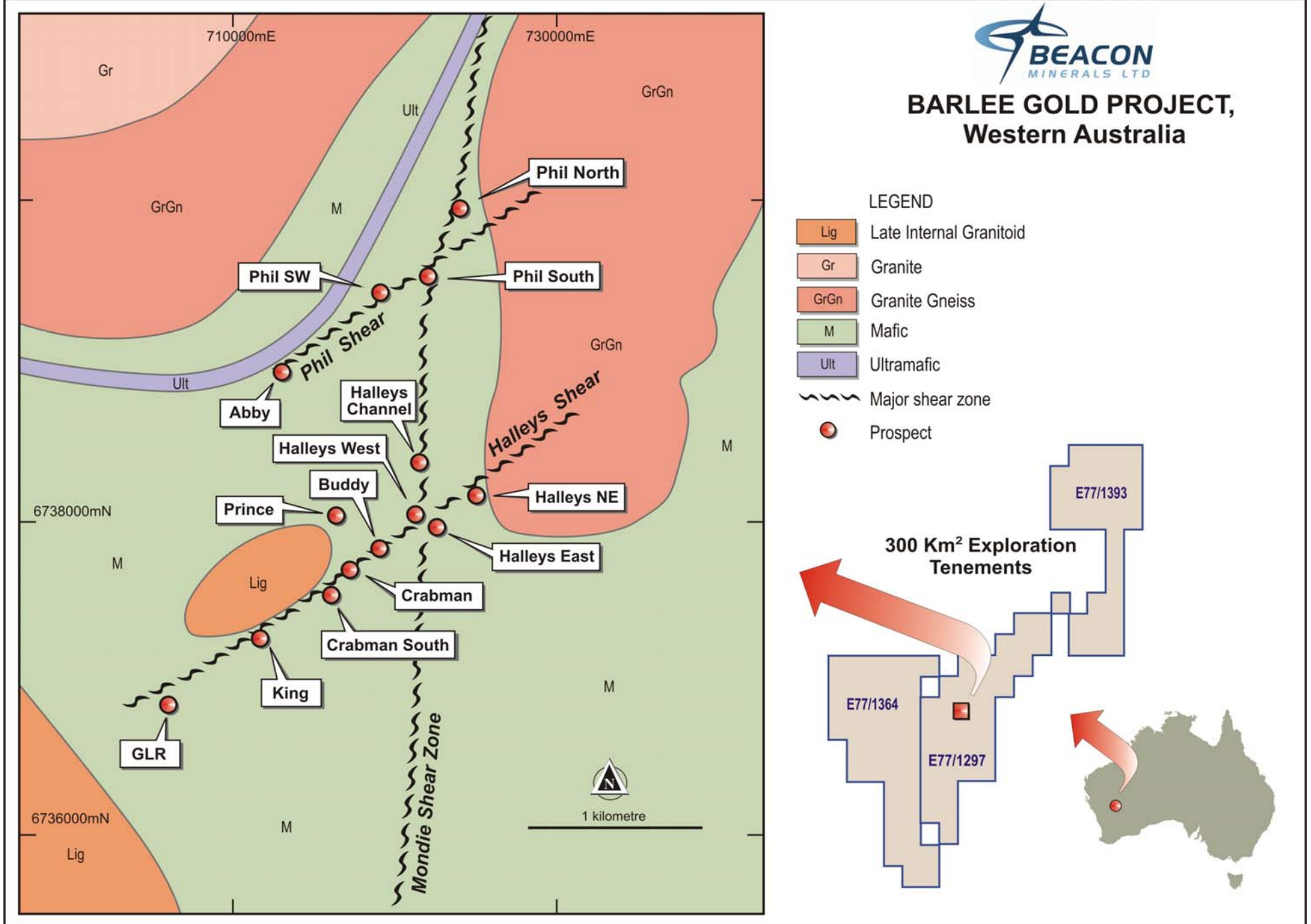
Duplicate samples inserted routinely.

Assays sent to Ultratrace Laboratories in Perth. Gold & PGE determination via Fire Assay-ICP/OES

Au = gold, EOH= End of Hole

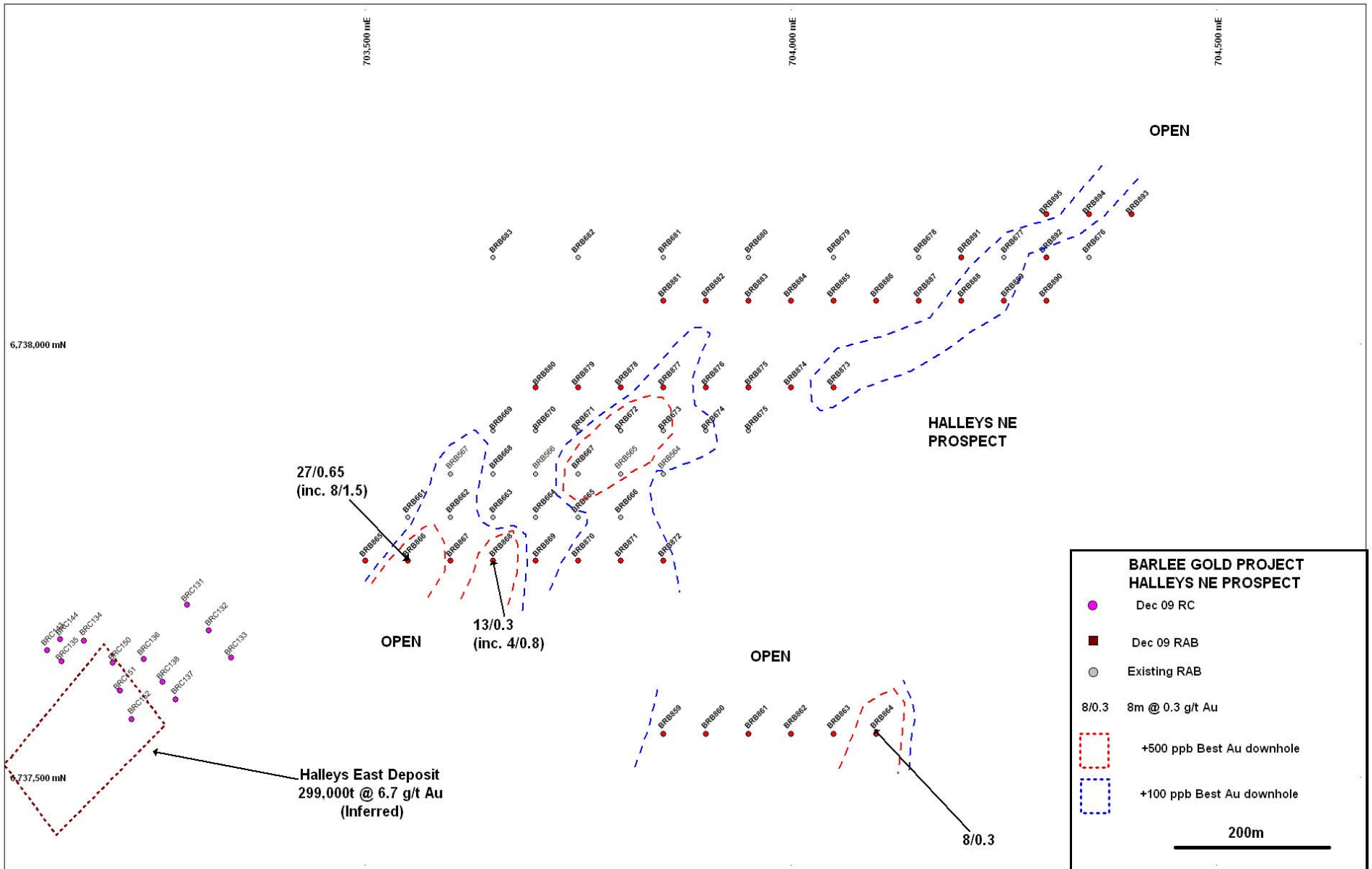
All holes vertical to blade refusal.

Attachment 4 – Prospect Location Plan

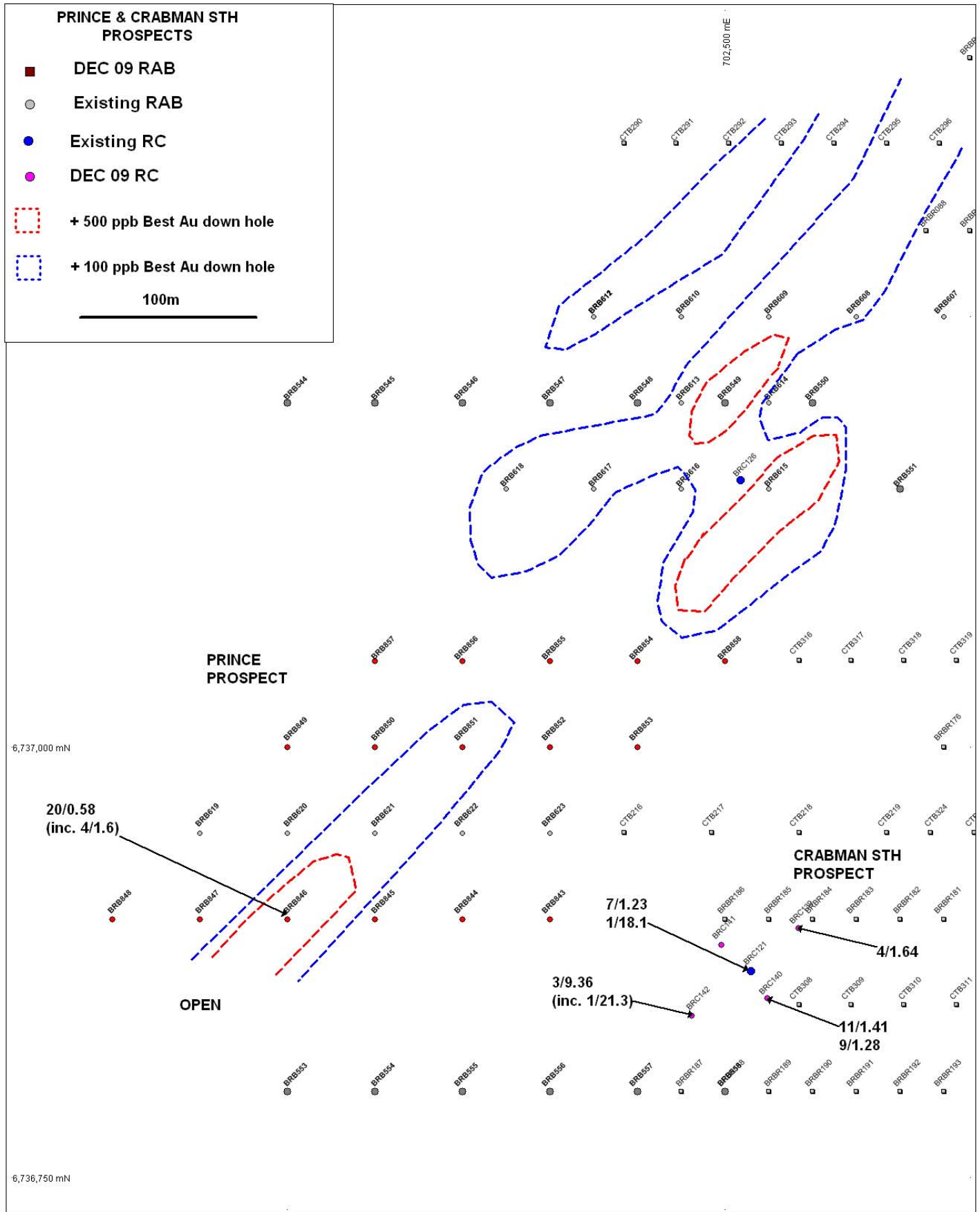




# Attachment 5 – Collar Location Map – Halleys East & Halleys NE



# Attachment 6 – Collar Location Map – Prince & Crabman South



# Attachment 7 – Collar Location Map – Phil SW & Phil

