



**BLACKTHORN**  
RESOURCES

9 July 2009

**MUMBWA JV PROJECT - PHASE 3B EXPLORATION RESULTS AND PROGRESS REPORT**

**KEY POINTS:**

- First consignment of Phase 3B results received for drillholes S36-006 and S36-022 revealed mineralised intervals of copper ("Cu") and intermittent gold ("Au").
- S36-006 intersected intervals of copper and gold mineralisation at various downhole depths between 152m to 643m from the surface.

**S36-006**

**Best drilled intersections include:**

- **80 m @ 0.57 g/t Cu between 563m and 643m, including**
  - 3 m @ 1.50 % Cu between 605m and 608m,
  - 2 m @ 1.03 % Cu between 610m and 612m,
  - 3 m @ 1.67 % Cu between 615m and 618m,
  - 2 m @ 1.08 % Cu between 620m and 622m,
  - 1 m @ 1.04 % Cu between 623m and 624m,
  - **2 m @ 0.60 g/t Au between 641 m and 643m.** \*
- S36-022 intersected intervals of copper and gold mineralisation at various downhole depths between 108m to 844m from surface.

**S36-022**

**Best drilled intersections include:**

- **19 m @ 1.42 % Cu between 212m and 231 metres, including**
  - 1m @ 1.22 % Cu between 213m and 214m,
  - 1m @ 2.43 % Cu between 216m and 217m,
  - 5 m @ 3.01 % Cu between 218m and 223m,
  - 1m @ 1.75 % Cu between 225m and 226m.
- **3 m @ 1.06 % Cu between 235m and 238m, including**
  - 1 m @ 1.90 % Cu between 237m and 238m.
- **2 m @ 0.26 g/t Au between 326m and 328m.** \*
- **1 m @ 0.42 g/t Au between 334m and 335m.** \*
- **2 m @ 0.37 g/t Au between 340m and 342m.** \*
- **14 m @ 0.51 % Cu between 343m and 357m, including**
  - **1 m @ 0.27 g/t Au between 344m and 345m,** \*
  - 2m @ 2.06 % Cu between 354m and 356m.
- **4 m @ 0.81 % Cu between 543m and 547m, including**
  - 2m @ 1.33 % Cu between 543m and 545m.

\* Denotes gold mineralisation

- **These assay results are consistent with results previously received from the Kitumba Anomaly drilled during the Phase 3 program.**
- **The Phase 3B drilling program has completed 14 cored holes on the Kitumba Anomaly for in excess of 6,400 metres.**
- **Two drilling rigs have now mobilised and commenced drilling at the Mushingashi Anomaly, which extends for over 19 kilometres.**
- **A third drilling rig has mobilised to Mumbwa ahead of schedule and is currently being overhauled.**

Blackthorn Resources Limited (ASX: BTR) (“the Company” or “Blackthorn Resources”) is pleased to provide the first set of exploration results received from the Phase 3B drilling program being completed at the Mumbwa joint venture (“JV”) Project in Zambia. The Phase 3B drilling program is exploring for Iron Oxide Copper Gold (“IOCG”) style of mineralisation and is being managed and funded by JV partner BHP Billiton.

This drilling phase was planned to follow up mineralisation identified on the Kitumba Anomaly which was drilled during the previous Phase 3 drilling campaign. BHP Billiton have elected to progress the Phase 3B stage of drilling in the Project which is currently held by Blackthorn Resources at 60% and BHP Billiton at 40%.

At Kitumba, the current Phase 3B drilling program has completed 14 cored holes for an excess of 6,400 metres. The two drilling rigs have now mobilized to the Mushingashi Anomaly and have started drilling on planned targets. The Mushingashi Anomaly (formerly referred to as “The Worm”) is situated approximately 5 km north-northwest from Kitumba and is described as a 19 km long density anomaly, which has not been thoroughly drill tested. The northern part of the Mushingashi Anomaly is buried below the cover of the overlying Karoo sediments and drilling is required to penetrate approximately 70-90m of overburden.

A third drilling rig has arrived on site and is being prepared to commence drilling by the end of July 2009. This rig has mobilized ahead of schedule and is being overhauled to comply with safety requirements.

#### *Phase 3B - Results*

The first consignment of results was received for holes S36-006 and S36-022. Both holes yielded some encouraging results which were in-line with expectations and the understanding gained during the Phase 3 drilling program.

The S36-006 and S36-022 drillholes are situated in the northern part of the drill pattern over the Kitumba Anomaly as illustrated in FIGURE 1 and were designed to test the outer extremities of mineralisation.

As expected, gold mineralisation appeared to be confined to a narrow zone on the western side of the north-south trending Mumbwa Fault Zone. Only minor intersections of gold above the cut-off were intersected in hole S36-022, which is located closer to the fault zone.

Copper mineralisation was intersected within both drillholes, S36-006 and S36-022, and provides some confidence that the mineralised copper halo extends further towards the north and northwest as previously suggested. Results from other holes drilled during this phase will provide additional data to assist in further interpretation.

### S36-006

Drillhole S36-006 intersected copper and minor gold mineralisation at various depths down the hole between 152m to 643m as illustrated in FIGURE 2. The reported intersections represent drilled thicknesses and are calculated on weighted average grades using a cut-off of 0.25% Cu and 0.25 g/t Au. True width intersections were not quoted in these results as additional interpretation is required to correlate data from adjacent holes.

#### S36-006 (Total depth = 665.6m)

- 2m @ 0.25 % Cu between 152m and 154m.
- 2m @ 0.30 % Cu between 168m and 170m.
- 2m @ 0.27 % Cu between 190m and 192m.
- 2m @ 0.28 % Cu between 196m and 198m.
- 1m @ 0.38 % Cu between 410m and 411m.
- 2m @ 0.68 % Cu between 437m and 439m.
- **10m @ 0.41 % Cu between 457m and 467m.**
- 6m @ 0.25 % Cu between 505m and 511m.
- **10m @ 0.30 % Cu between 519m and 529m.**
- **16m @ 0.35 % Cu between 539m and 555m.**
- **80m @ 0.57 % Cu between 563m and 643m, including**
  - 3m @ 1.50 % Cu between 605m and 608m,
  - 2m @ 1.03 % Cu between 610m and 612m,
  - 3m @ 1.67 % Cu between 615m and 618m,
  - 2m @ 1.08 % Cu between 620m and 622m,
  - 1m @ 1.04 % Cu between 623m and 624m,
  - **2m @ 0.60 g/t Au between 641m and 643m.** \*

\* Denotes gold assay above 0.25 g/t cut-off for reporting purposes.

S36-006 was core drilled at an angle of 70 degrees towards the east (090 degrees) for an end of hole depth of 665.6 metres. A total of 384 samples of drill core and quality control samples were submitted for preparation by multi-acid digestion and multi-element analysis by ICP-MS and ICP-AES techniques. Samples were prepared by SGS laboratory in Ndola, Zambia and sent to SGS laboratory in Johannesburg, South Africa for analysis.

S36-022

Drillhole S36-022 intersected copper and gold mineralisation between 108m and 844m as illustrated in FIGURE 2. The reported intersections represent drilled thicknesses and are calculated on a weighted average grades using a cut-off of 0.25% Cu and 0.25 g/t Au. True width intersections were not quoted in these results as additional interpretation is required to correlate data from adjacent holes.

S36-022 (Total depth = 851.5m)

- 4m @ 0.32 % Cu between 8m and 12m.
- 6m @ 0.38 % Cu between 108m and 114m.
- 6m @ 0.27 % Cu between 124m and 130m.
- 2m @ 0.28 % Cu between 134m and 136m.
- 6m @ 0.26 % Cu between 144m and 150m.
- 2m @ 0.28 % Cu between 192m and 194m.
- **19m @ 1.42 % Cu between 212m and 231m, including**
  - 1m @ 1.22 % Cu between 213m and 214m,
  - 1m @ 2.43 % Cu between 216m and 217m,
  - 5m @ 3.01 % Cu between 218m and 223m,
  - 1m @ 1.75 % Cu between 225m and 226m.
- 3m @ 1.06 % Cu between 235m and 238m, including
  - 1m @ 1.90 % Cu between 237m and 238m.
- 2m @ 0.34 % Cu between 240m and 242m.
- 4m @ 0.35 % Cu between 268m and 272m.
- 6m @ 0.39 % Cu between 280m and 286m.
- *2m @ 0.26 g/t Au between 326m and 328m.* \*
- *1m @ 0.42 g/t Au between 334m and 335m.* \*
- 3m @ 0.40 % Cu between 335m and 338m.
- *2m @ 0.37 g/t Au between 340m and 342m.* \*
- **14m @ 0.51 % Cu between 343m and 357m, including**
  - **1m @ 0.27 g/t Au between 344m and 345m,** \*
  - **2m @ 2.06 % Cu between 354m and 356m.**
- 0.5m @ 0.71 % Cu between 377.5m and 378m.
- 1.5m @ 0.31 % Cu between 389.5m and 391m.
- 2m @ 0.33 % Cu between 449m and 451m.
- 4m @ 0.81 % Cu between 543m and 547m, including
  - 2m @ 1.33 % Cu between 543m and 545m.
- 2m @ 0.81% Cu between 714m and 716m.
- 4m @ 0.37 % Cu between 722m and 726m.
- **11m @ 0.30 % Cu between 744m and 755m.**
- 2m @ 0.49 % Cu between 761 and 763 metres.
- 1m @ 0.31 % Cu between 817 and 818 metres.
- 1m @ 0.37 % Cu between 830 and 831 metres.
- 3m @ 0.34 % Cu between 841 and 844 metres.

\* Denotes gold assay above 0.25 g/t cut-off for reporting purposes.



S36-022 was core drilled at an angle of 70 degrees towards the east (090 degrees) for an end of hole depth of 851.5 metres. A total of 492 samples of drill core and quality control samples were submitted for preparation by multi acid digestion and multi element analysis by ICP-MS and ICP-AES techniques. Samples were prepared by SGS laboratory in Ndola, Zambia and sent to SGS laboratory in Johannesburg, South Africa for analysis.

Managing Director Scott Lowe said.

“We are very pleased to see continued positive indications of mineralisation on the Kitumba anomaly at Mumbwa. The remaining holes on Kitumba that have yet to be analysed will test the extremities of that particular anomaly. Mumbwa continues to be a priority project for our company and we look forward to testing the 19km long Mushingashi anomaly now that drilling has commenced.”

Note:

Gold and copper assays were performed in accordance by ISO 9001 and ISO/IEC 17025 accredited SGS South Africa (Pty) Ltd laboratory in Johannesburg, South Africa. Samples were analysed by multi-acid digest followed by multi-element inductively coupled atomic emission spectrometry (ICP-AES) and inductively coupled mass spectrometry (ICP-MS). Where acid digestion analysis exceeded the upper detection limit (>10,000 ppm), the sample was re-assayed using sodium peroxide fusion techniques followed by ICP-AES.

**ATTRIBUTION**

The information in this report which relates to Exploration Results at the Mumbwa JV Project has been reviewed and approved for release by Mr Michael J Robertson, MSc, Pr.Sci.Nat., MSAIMM who has 20 years experience in mineral exploration, and who is a full-time employee of the MSA Group, and has sufficient experience in relation to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined by the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (The JORC Code 2004 Edition) and as a Qualified Person under the AIM Rules. Mr Robertson has consented to inclusion of this information in the form and context in which it appears.

**Should you require further information please contact:**

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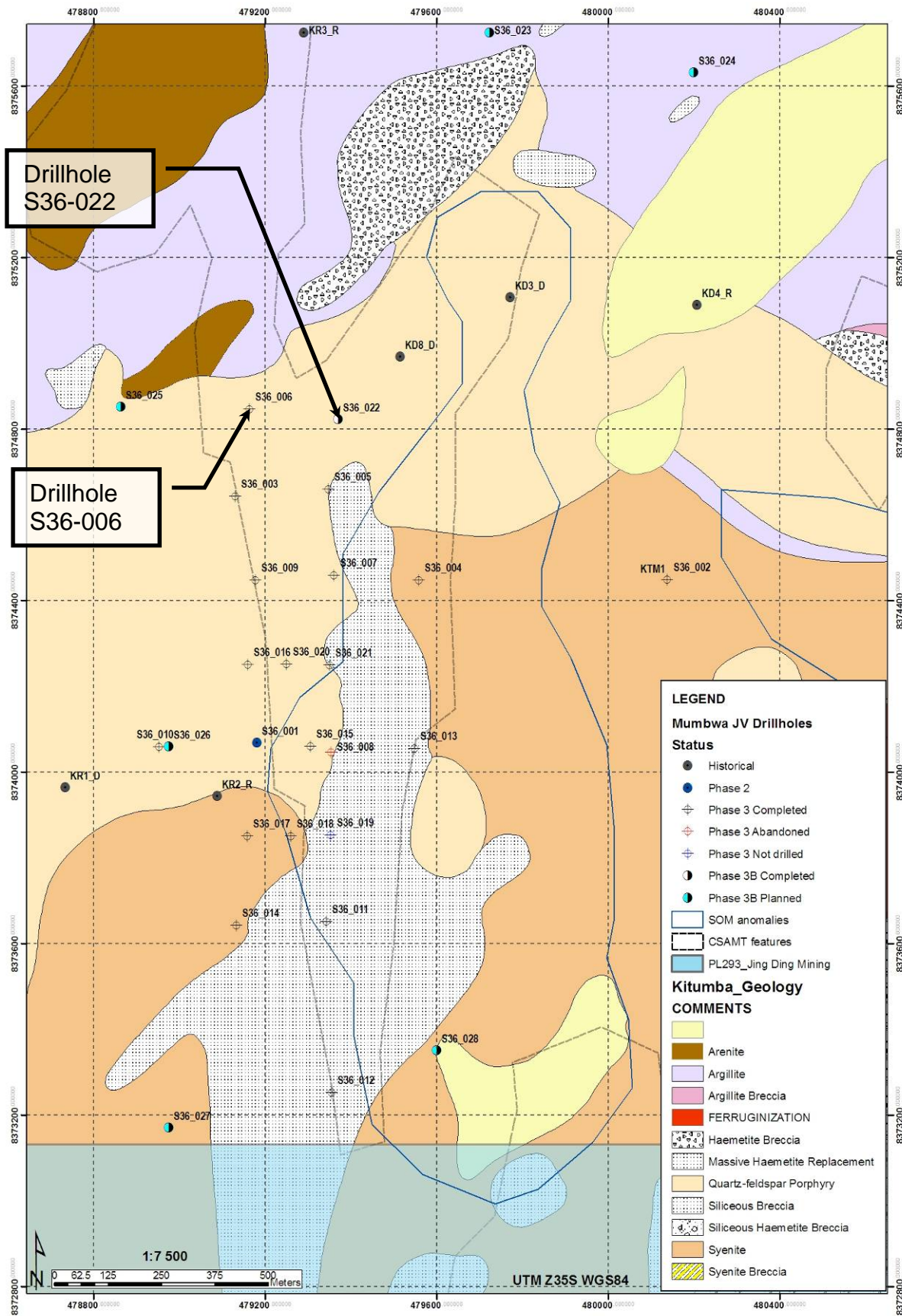
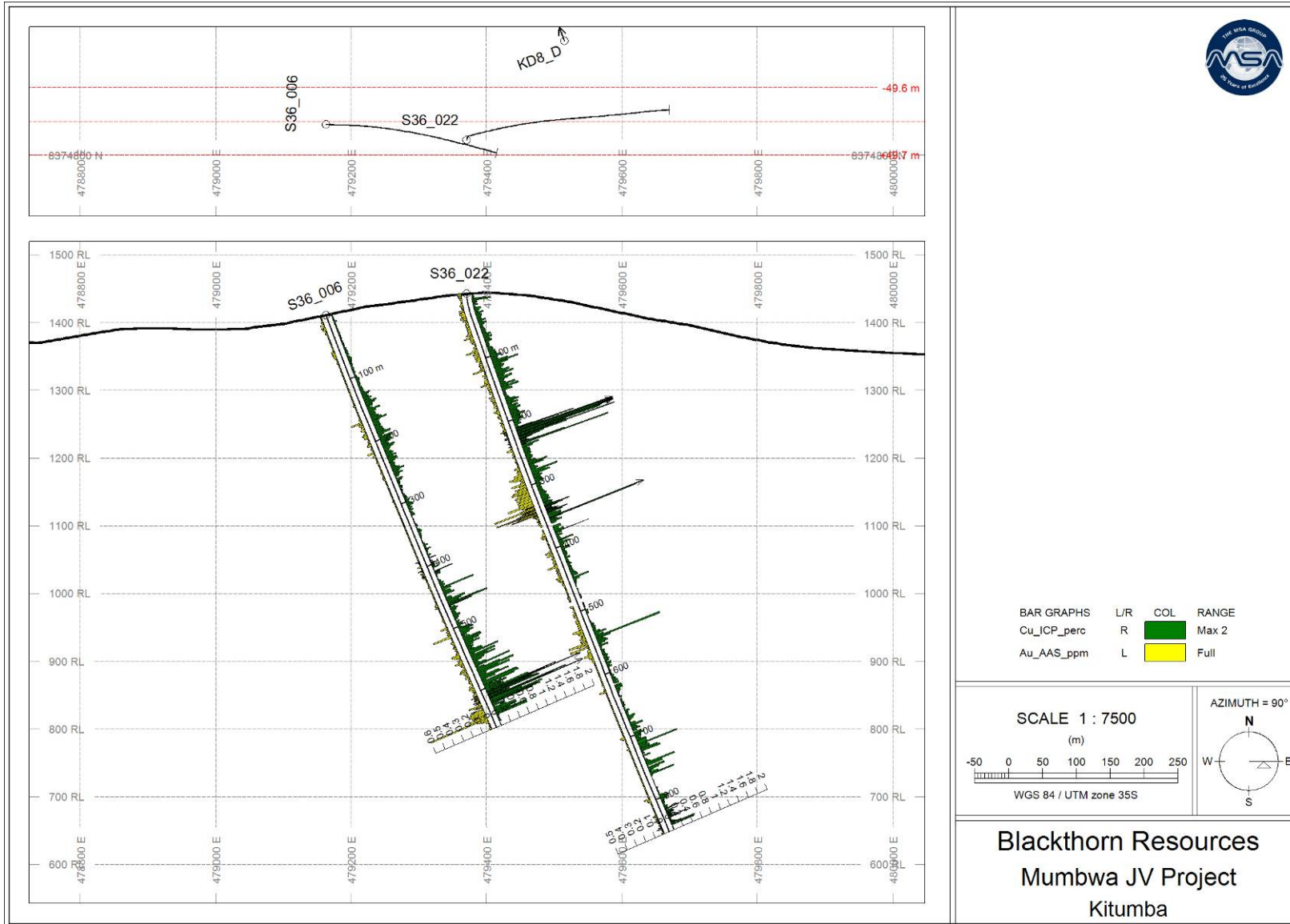


FIGURE 1 – Mumbwa JV Project Phase 3B Drillhole Location Plan.



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**FIGURE 2** – East-West Section across the Mumbwa Project area illustrating the drill trace for holes S36-006 and S36-022, showing Cu and Au values  
Ends

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