



**BLACK RANGE**  
MINERALS

## ASX Release

15 September 2011

**BLACK RANGE MINERALS  
LIMITED**

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### Directors / Officers:

**Alan Scott**  
**Mike Haynes**  
**Duncan Coutts**  
**Nick Day**

### Issued Capital:

**797.0 million shares**

**5.1 million unlisted options**

### Australian Stock Exchange

Symbol: **BLR**

## PROGRESS REPORT – HANSEN URANIUM DEPOSIT DRILLING PROGRAM

### Highlights

- **Drilling to acquire additional technical data to update feasibility studies into the development of the Hansen Uranium Deposit continues to progress well.**
- **Further thick, high-grade mineralisation intersected in drilling, including:**
  - **11.1 metres at 0.111% eU<sub>3</sub>O<sub>8</sub>, including 4.1 metres at 0.165% eU<sub>3</sub>O<sub>8</sub>, and 1.8 metres at 0.200% eU<sub>3</sub>O<sub>8</sub>**
  - **1.7 metres at 0.138% eU<sub>3</sub>O<sub>8</sub>**

Black Range Minerals Limited (ASX: BLR; “Black Range” and the “Company”) is pleased to advise that its drilling program at the Hansen Uranium Deposit in Colorado, USA (see Figure 1) continues to progress well.

The Company is currently drilling eight diamond core holes at the Hansen Deposit (see Figure 2) and plans to drill a further three diamond core holes at the Picnic Tree Deposit (see Figure 3) to obtain additional geological, geotechnical, metallurgical and hydrological data.

These data will be used to update the previous feasibility studies that were undertaken into the development of the Hansen Deposit during the early 1980s. A decision on the best development path for the Project will then be made.

The Company is currently drilling the eighth (and final) hole at the Hansen Deposit. The rig will then be moved to the adjacent Picnic Tree Deposit to complete the proposed drilling program.

Results from the first four holes drilled at the Hansen Deposit have been reported previously. The fifth hole at Hansen (HNDD0005) was drilled primarily to obtain geotechnical information towards the northern end of the previously planned open pit (see Figure 2). Despite this it intersected thick, high-grade mineralisation, including:

- **11.1 metres at 0.111% eU<sub>3</sub>O<sub>8</sub>, including 4.1 metres at 0.165% eU<sub>3</sub>O<sub>8</sub>, and 1.8 metres at 0.200% eU<sub>3</sub>O<sub>8</sub>**
- **1.7 metres at 0.138% eU<sub>3</sub>O<sub>8</sub>**

The sixth and seventh holes drilled at the Hansen Deposit

(HNDD0006 and HNDD0007) were purposely drilled on the edge of the proposed open pit (see Figure 2), entirely for geotechnical and hydrological assessment. As expected, only minimal mineralisation was intersected in these holes (see Table 2).

The current drill hole at the Hansen Deposit is expected to be completed within the next 7-10 days. The drilling rig will then complete the three planned holes at the Picnic Tree Deposit. These holes are somewhat shallower than the holes drilled at the Hansen Deposit, so it is anticipated that these will be completed towards the end of September/early October. Mine design work for the Hansen Deposit will commence shortly, while the holes at the Picnic Tree Deposit are being drilled.

### **Background – Hansen/Taylor Ranch Uranium Project**

The Hansen Uranium Deposit was discovered in 1977 and fully permitted for mining in 1981. The global uranium market subsequently collapsed and mining never eventuated.

More than 1,000 holes were drilled and three feasibility studies completed to evaluate the Hansen Deposit previously.

The Company now holds a direct 24.5% equity interest in the Hansen Uranium Project that covers approximately 3,500 acres and includes the Hansen and Picnic Tree Uranium Deposits. It also holds the exclusive right to secure the remaining 75.5% interest in this Project area, together with the exclusive right to acquire a 100% interest in a further 9,500 acres at the Taylor Ranch Uranium Project, which is located immediately adjacent to, and north of, the Hansen Project.

When applying a 0.025% cut-off grade, the JORC Code compliant indicated and inferred resource for the combined Hansen/Taylor Ranch Uranium Project comprises:

**68.9 Mt at 0.060% U<sub>3</sub>O<sub>8</sub> for 90.9 million pounds of U<sub>3</sub>O<sub>8</sub>**

The high-grade and robust nature of the mineralisation at the Hansen/Taylor Ranch Project is demonstrated when applying a 0.075% cut-off grade to the resource calculation. The JORC Code compliant indicated and inferred resource for the combined Hansen/Taylor Ranch Uranium Project then comprises:

**16.6 Mt at 0.120% U<sub>3</sub>O<sub>8</sub> for 43.8 million pounds of U<sub>3</sub>O<sub>8</sub>**

The combined Hansen/Taylor Ranch Uranium Project is one of the largest uranium projects within the USA – which as a nation is the largest consumer of uranium in the world. With domestic mines within the USA producing less than 10% of the uranium consumed in the country on an annual basis, the development of such a large and strategic asset should be regarded highly.

Black Range continues to advance feasibility and environmental studies at the Hansen/Taylor Ranch Uranium Project as quickly as possible.

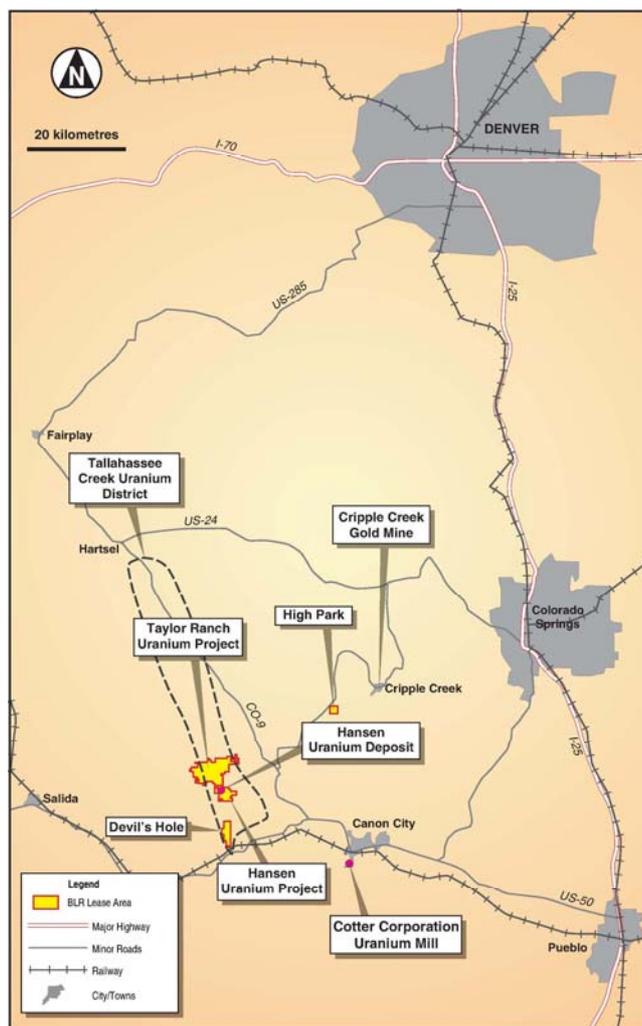
**Mike Haynes**  
**Managing Director**

**Table 1.** Drillhole collar and depth information for the reported holes drilled at the Hansen Uranium Deposit, Colorado, USA.

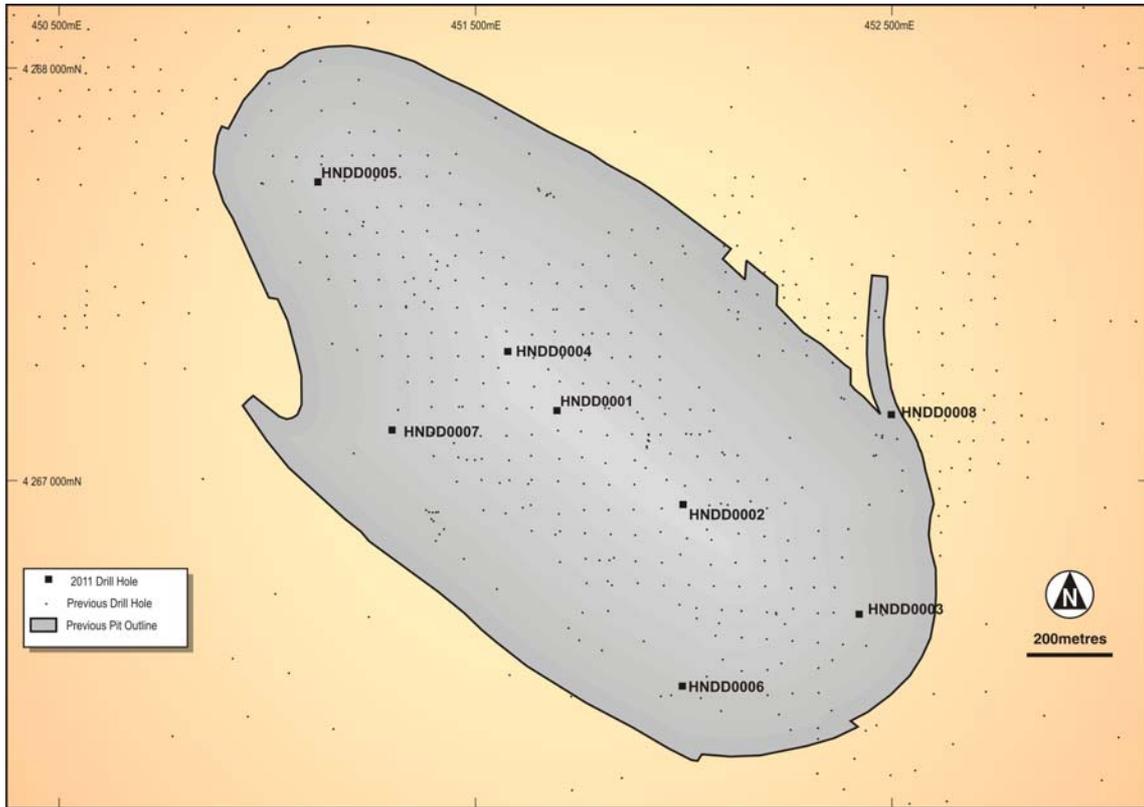
Hole Number	Prospect	Easting (UTM metres)	Northing (UTM metres)	Inclination	Azimuth	Total Depth (metres)
HNDD0005	Hansen	451122	4267725	-90	0	203.6
HNDD0006	Hansen	451998	4266502	-90	0	181.1
HNDD0007	Hansen	451304	4267125	-90	0	173.6

**Table 2.** Significant intersections in electronic logging of the holes reported at the Hansen Uranium Deposit.

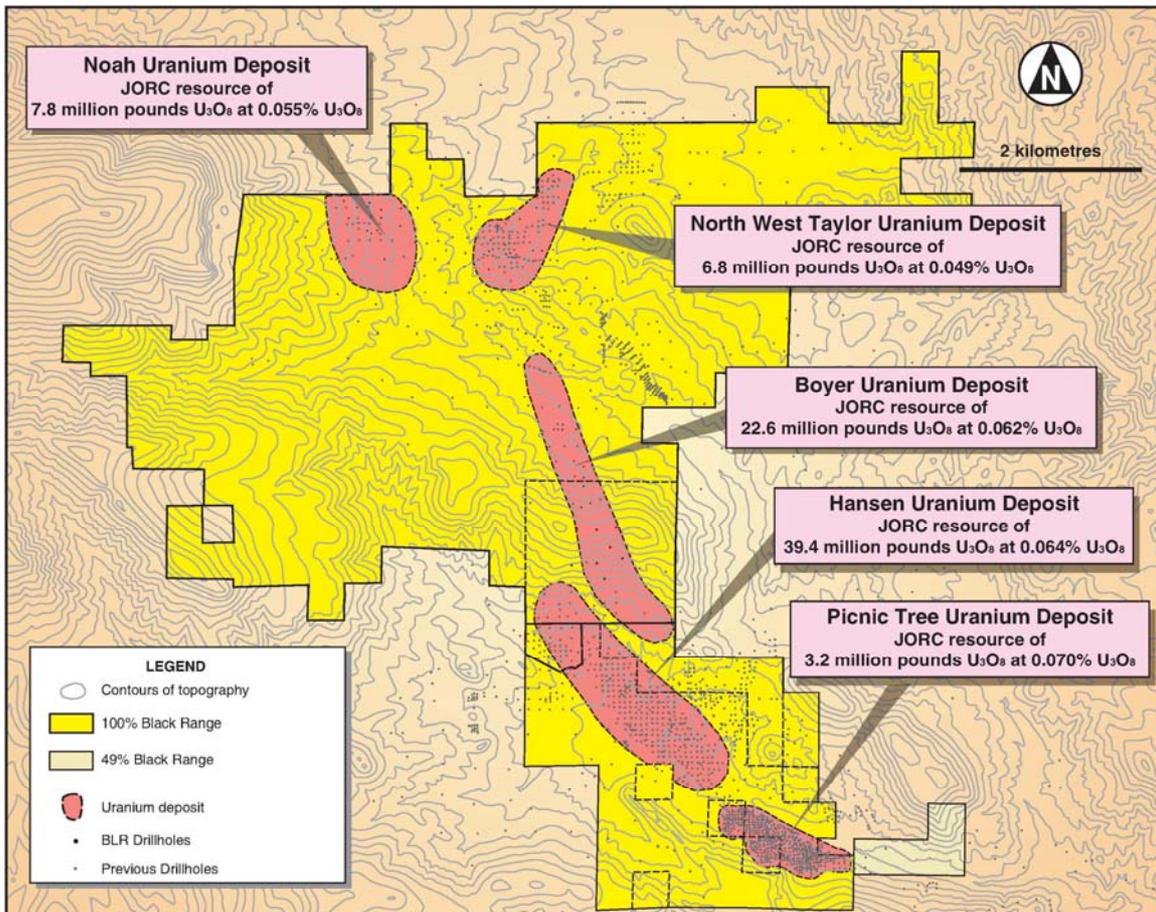
Prospect	Hole Id	From (metres)	To (metres)	Interval (metres)	Grade (eU3O8 %)
Hansen	HNDD0005	163.6	174.7	11.1	0.111
	incl	164.8	168.9	4.1	0.165
	also incl	166.5	167.7	1.2	0.360
	incl	170.9	172.7	1.8	0.200
	HNDD0005	177.6	179.3	1.7	0.138
	HNDD0006	149.1	150.3	1.2	0.035
	HNDD0007	160.2	161.5	1.2	0.052



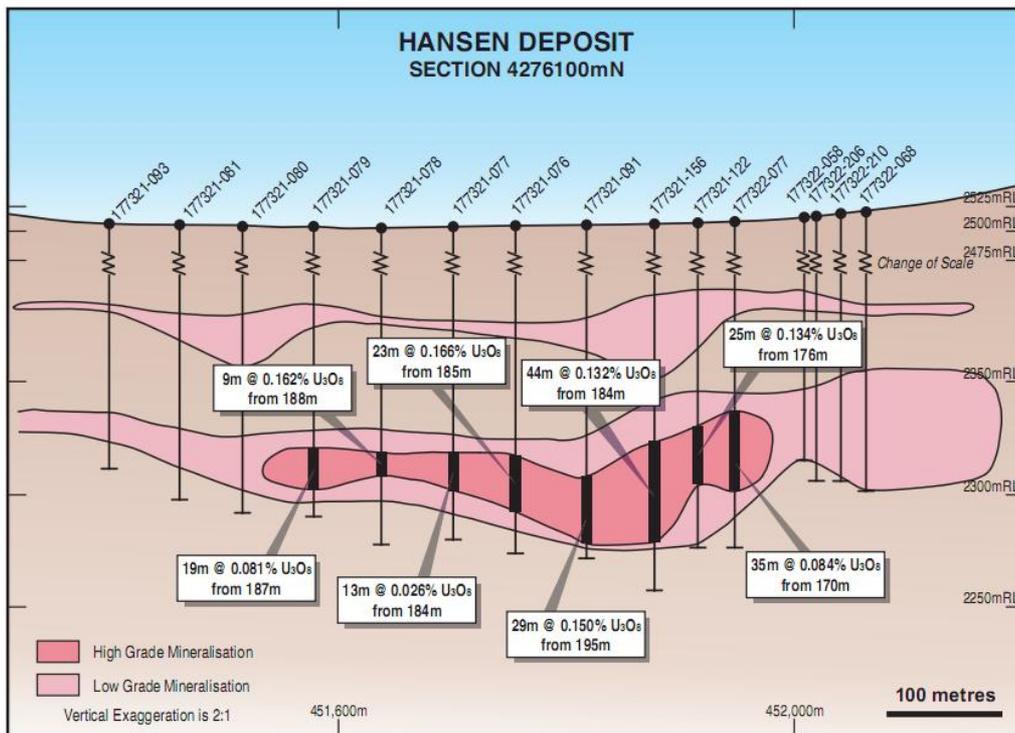
**Figure 1.** Location of Black Range Minerals' Hansen/Taylor Ranch Uranium Project in Colorado, USA.



**Figure 2.** Location of previous and recently drilled holes at the Hansen Uranium Deposit, in relation to the boundary of the open pit as proposed and permitted in the 1980s.



**Figure 3.** Location of uranium deposits within Black Range Minerals' Taylor Ranch/Hansen Uranium Project.



**Figure 4.** Schematic cross-section through the Hansen Uranium Deposit.

**Table 1.** JORC Code compliant resources for the Company's 100% controlled Hansen/Taylor Ranch Uranium Project at different cut-off grades.

Using a cut-off grade of 0.025% U<sub>3</sub>O<sub>8</sub>:

Deposit	Indicated (0.025% Cut-Off)				Inferred (0.025% Cut-Off)				Total (0.025% Cut-Off)			
	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>
Hansen	11,600,262	0.067	7,768	17,124,620	16,399,487	0.062	10,101	22,269,792	27,999,749	0.064	17,869	39,394,412
Boyer	9,102,294	0.059	5,403	11,912,352	7,577,863	0.064	4,871	10,737,856	16,680,157	0.062	10,274	22,650,208
Picnic Tree	1,703,693	0.073	1,248	2,750,840	337,473	0.054	183	403,308	2,041,166	0.070	1,431	3,154,148
NW Taylor	2,385,649	0.058	1,388	3,061,003	3,940,027	0.043	1,710	3,769,842	6,325,676	0.049	3,098	6,830,845
Noah	1,438,200	0.055	784	1,728,025	4,956,582	0.055	2,736	6,031,920	6,394,782	0.055	3,520	7,759,945
High Park	1,954,983	0.053	1,028	2,267,000	433,634	0.077	333	734,000	2,388,617	0.057	1,361	3,001,000
Other (Taylor)	409,627	0.031	126	278,146	4,398,939	0.039	1,729	3,811,314	4,808,565	0.039	1,855	4,089,460
Other (Hansen Area)	333,771	0.085	285	627,955	2,020,228	0.077	1,552	3,421,397	2,353,999	0.078	1,837	4,049,351
<b>Total</b>	<b>28,928,480</b>	<b>0.062</b>	<b>18,030</b>	<b>39,749,941</b>	<b>40,064,232</b>	<b>0.058</b>	<b>23,215</b>	<b>51,179,428</b>	<b>68,992,711</b>	<b>0.060</b>	<b>41,244</b>	<b>90,929,369</b>

Or using a 0.075% U<sub>3</sub>O<sub>8</sub> cut-off grade:

Deposit	Indicated (0.075% Cut-Off)				Inferred (0.075% Cut-Off)				Total (0.075% Cut-Off)			
	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> (%)	Tonnes of U <sub>3</sub> O <sub>8</sub>	Pounds of U <sub>3</sub> O <sub>8</sub>
Hansen	3,126,521	0.129	4,041	8,908,599	3,909,667	0.125	4,904	10,811,979	7,036,188	0.127	8,945	19,720,578
Boyer	3,010,039	0.103	3,097	6,828,444	2,951,979	0.100	2,964	6,534,032	5,962,018	0.102	6,061	13,362,476
Picnic Tree	532,517	0.141	749	1,650,994	55,338	0.123	68	149,744	587,856	0.139	817	1,800,738
NW Taylor	373,571	0.154	574	1,265,849	346,530	0.098	338	745,633	720,101	0.127	912	2,011,481
Noah	259,397	0.114	295	649,647	806,233	0.125	1,010	2,227,132	1,065,630	0.122	1,305	2,876,779
High Park	326,587	0.114	372	820,000	130,635	0.163	212	468,000	457,221	0.128	584	1,288,000
Other (Taylor)	-	-	-	-	234,961	0.105	246	542,864	234,961	0.105	246	542,864
Other (Hansen Area)	84,368	0.213	180	396,180	428,191	0.196	839	1,849,296	512,559	0.199	1,019	2,245,476
<b>Total</b>	<b>7,713,001</b>	<b>0.121</b>	<b>9,308</b>	<b>20,519,713</b>	<b>8,863,534</b>	<b>0.119</b>	<b>10,581</b>	<b>23,328,680</b>	<b>16,576,535</b>	<b>0.120</b>	<b>19,889</b>	<b>43,848,392</b>

"The term  $eU_3O_8$  refers to an equivalent uranium oxide grade that is based on the conversion of a radiometric gamma log determination of radioactive mineral abundance to a calculated uranium content. True  $U_3O_8$  values are obtained from direct chemical assay results."

**Competent Person Statement:**

*The information in this report that relates to Mineral Resources at the Hansen and Taylor Ranch Uranium Projects is based on information compiled by Mr. John Rozelle who is a member of the American Institute of Professional Geologists. Mr John Rozelle compiled this information in his capacity as a Principal Geologist of Tetra Tech. Mr. John Rozelle has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. John Rozelle consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*The information in this report that relates to Exploration Results is based on information compiled by Mr. Ben Vallerine, who is a member of The Australian Institute of Mining and Metallurgy. Mr Vallerine is the Exploration Manager, USA for Black Range Minerals Limited. Mr. Vallerine has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Vallerine consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*