



**BLACK RANGE
MINERALS**

ASX Release

24 October 2011

**BLACK RANGE MINERALS
LIMITED**

Suite 9

5 Centro Avenue
Subiaco WA 6008

Australia

Tel: +61 8 9481 4920

Fax: +61 8 9226 2027

Contact:

**Mike Haynes
Managing Director**

E-mail:

info@blackrangeminerals.com

Directors / Officers:

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

Issued Capital:

797.0 million shares

5.1 million unlisted options

**Australian Stock Exchange
Symbol: BLR**

DRILLING PROGRAM COMPLETED AT THE HANSEN URANIUM DEPOSIT

Highlights

- **Drilling to acquire additional technical data to update feasibility studies previously undertaken for the development of the Hansen and Picnic Tree Uranium Deposits completed.**
- **High-grade mineralisation intersected in drilling at the Picnic Tree Deposit, including:**
 - **6.1 metres at 0.203% eU₃O₈, including**
 - **4.3 metres at 0.277% eU₃O₈**
- **Metallurgical testing and mine design work commenced.**

Black Range Minerals Limited (ASX: BLR; “Black Range” and the “Company”) is pleased to advise that it has completed its inaugural drilling program at the Hansen and Picnic Tree Uranium Deposits in Colorado, USA (see Figure 1).

A total of eight diamond core holes were drilled at the Hansen Deposit for 1,741 metres and a further three diamond core holes for 170 metres were completed at the Picnic Tree Deposit (see Figure 2). These holes were drilled to obtain additional geological, geotechnical, metallurgical and hydrological data.

Data acquired will be used to update the previous feasibility studies that were undertaken into the development of the Hansen Deposit during the early 1980s.

Analytical results from recent drilling at the Hansen Deposit have been reported previously. These included:

- **11.1 metres at 0.111% eU₃O₈, including**
- **4.1 metres at 0.165% eU₃O₈, and**
- **1.8 metres at 0.200% eU₃O₈**
- **1.7 metres at 0.138% eU₃O₈**
- **24.8 metres at 0.070% eU₃O₈**
- **13.4 metres at 0.063% eU₃O₈**
- **33.5 metres at 0.061% eU₃O₈, including**
- **10.1 metres at 0.093% eU₃O₈,**
- **4.3 metres at 0.100% eU₃O₈, and**
- **1.5 metres at 0.171% eU₃O₈**

Drilling at the Picnic Tree deposit confirmed the presence of shallow, high-grade mineralisation. Results in HNDD0011 included:

- **6.1 metres at 0.203% eU₃O₈, from 40.5 metres, including 4.3 metres at 0.277% eU₃O₈, from 41.2 metres**

It is noted that numerous holes drilled during the recently completed program were located primarily to evaluate geotechnical conditions, rather than to evaluate resource grade, thickness and continuity, which has been well defined with the abundance of previous drilling data.

Representative ore samples from both the Hansen and Picnic Tree Deposits are now being collected. These will be sent to suitable laboratories for metallurgical test work.

Mine design work for both deposits has also commenced. This work is an integral part of updating the historic feasibility study and determining the optimal development path for the Project. Results of this ongoing work will be reported as they come to hand.

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% U₃O₈ for 90.9 million pounds of U₃O₈

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% U₃O₈ for 43.8 million pounds of U₃O₈

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.

Table 1. Drill hole collar and depth information for the reported holes drilled at the Hansen and Picnic Tree Uranium Deposits, Colorado, USA.

Hole Number	Prospect	Easting (UTM metres)	Northing (UTM metres)	Inclination	Azimuth	Total Depth (metres)
HNDD0008	Hansen	452500	4267160	-90	0	204.1
HNDD0009	Picnic Tree	452887	4265755	-90	0	83.4
HNDD0010	Picnic Tree	453318	4265794	-90	0	30.2
HNDD0011	Picnic Tree	453435	4265491	-90	0	56.1

Table 2. Significant intersections in electronic logging of the holes reported at the Hansen and Picnic Tree Uranium Deposits.

Prospect	Hole Id	From (metres)	To (metres)	Interval (metres)	Grade (eU3O8%)
Hansen	HNDD0008	No Significant Intersections			
Picnic Tree	HNDD0009	71.9	74.8	2.9	0.047
	incl	73.2	74.4	1.2	0.070
	HNDD0010	14.9	17.8	2.9	0.055
	incl	15.6	17.1	1.5	0.071
	HNDD0011	40.5	46.6	6.1	0.203
	incl	41.2	45.5	4.3	0.277

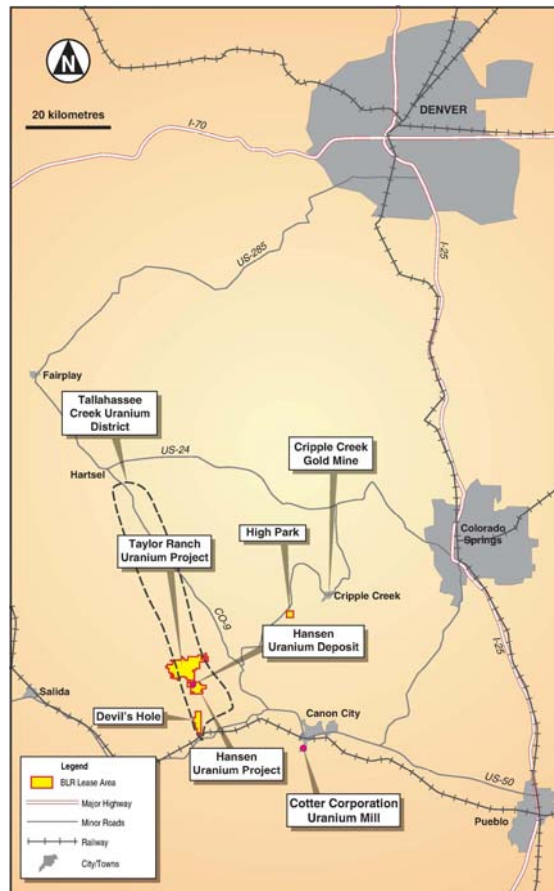


Figure 1. Location of Black Range Minerals' Hansen/Taylor Ranch Uranium Project in Colorado, USA.

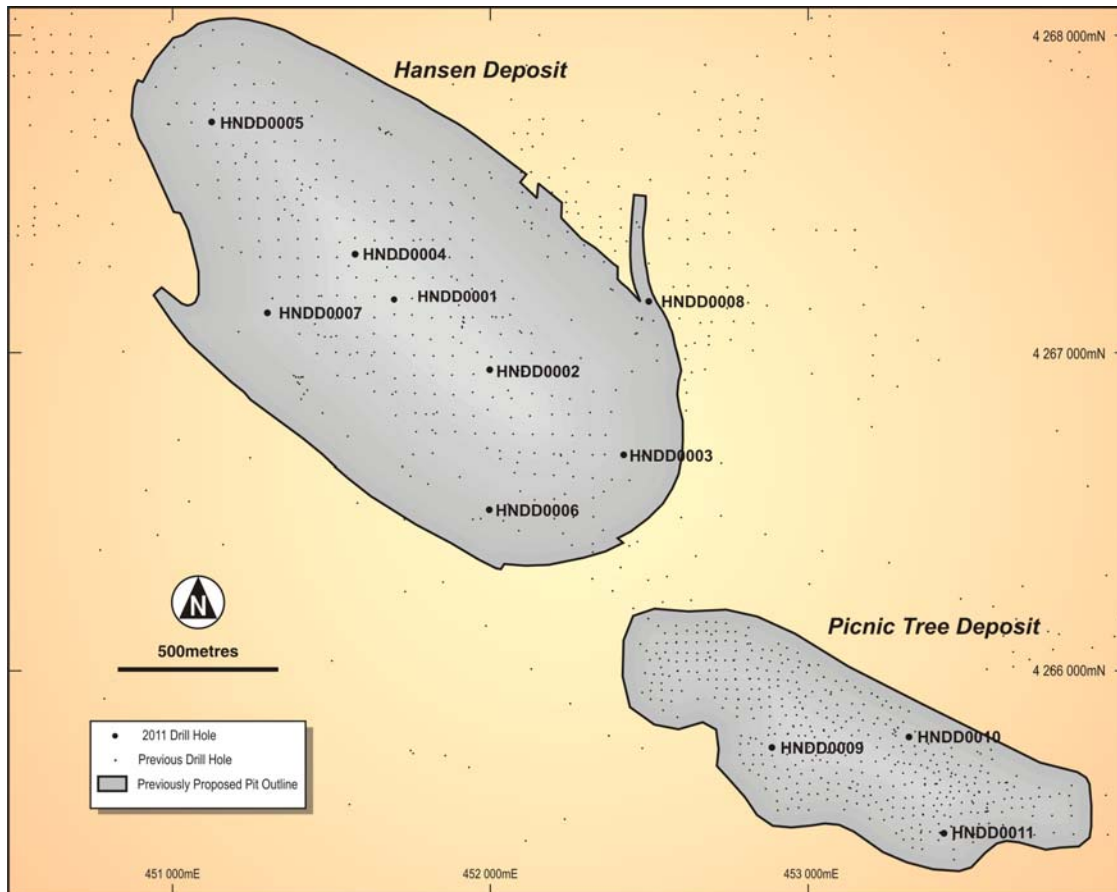


Figure 2. Location of previous and recently drilled holes at the Hansen and Picnic Tree Uranium Deposits, in relation to the boundary of the open pits as proposed and permitted in the 1980s (despite all permits being awarded, mining was never undertaken).

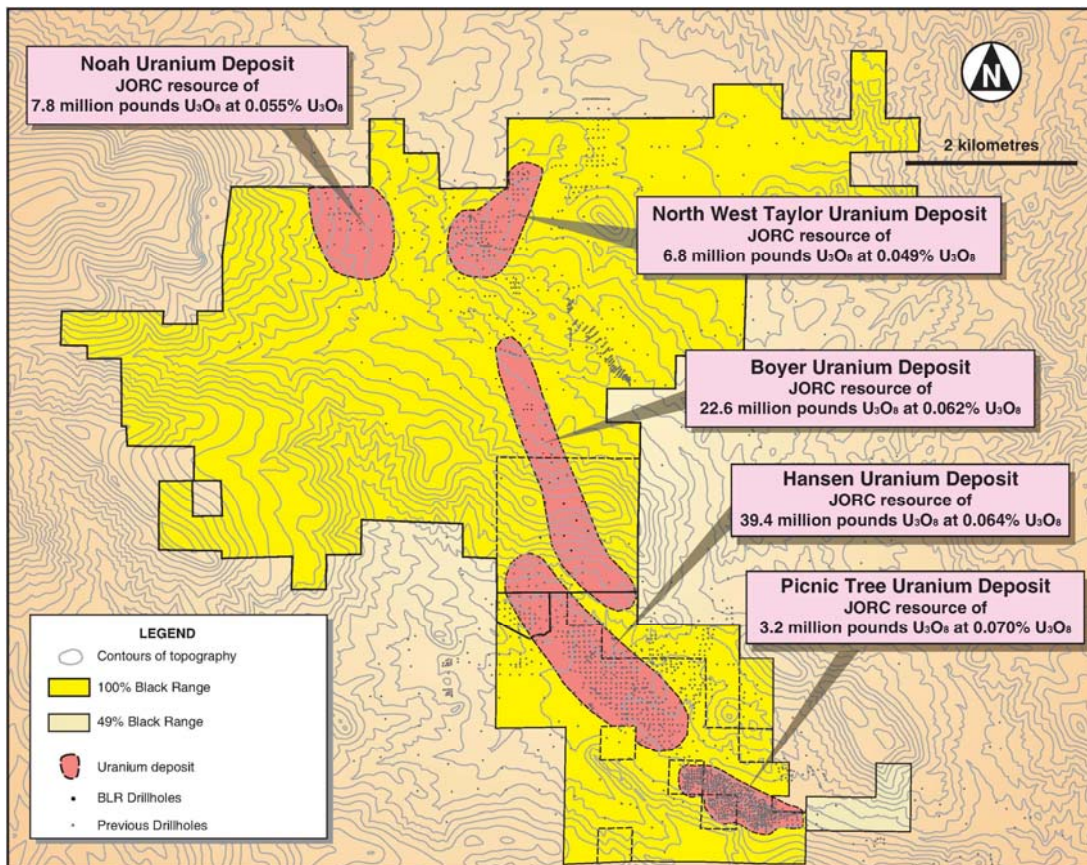


Figure 3. Location of uranium deposits within Black Range Minerals' Taylor Ranch/Hansen Uranium Project.

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% U₃O₈:

Deposit	Indicated (0.025% Cut-Off)				Inferred (0.025% Cut-Off)				Total (0.025% Cut-Off)			
	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈
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
Total	28,928,480	0.062	18,030	39,749,941	40,064,232	0.058	23,215	51,179,428	68,992,711	0.060	41,244	90,929,369

Or using a 0.075% U₃O₈ cut-off grade:

Deposit	Indicated (0.075% Cut-Off)				Inferred (0.075% Cut-Off)				Total (0.075% Cut-Off)			
	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈	Tonnes	Grade U ₃ O ₈ (%)	Tonnes of U ₃ O ₈	Pounds of U ₃ O ₈
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
Total	7,713,001	0.121	9,308	20,519,713	8,863,534	0.119	10,581	23,328,680	16,576,535	0.120	19,889	43,848,392

"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.