

# Northgate Minerals Successfully Completes 2010 Diamond Drill Program at Kemess Underground

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VANCOUVER, Nov. 30 (CNW) - [Northgate Minerals Corporation](#) (TSX: NGX, NYSE Amex: NXG) is pleased to report assay results for the final 16 drill holes from its infill diamond drilling program at the Kemess Underground Project located five kilometres ("km") north of its Kemess South mine in north-central British Columbia.

## Drilling Highlights

- Hole KN-10-13 intersected 80.0 metres ("m") of 2.4 grams per tonne ("g/t") gold and 0.78% copper within a broader interval of 185.6 m, which returned 1.556 g/t gold and 0.571% copper.
- Hole KN-10-17 intersected 59.5 m of 1.15 g/t gold and 0.516% copper within a broader interval of 328.5 m, which returned 0.609 g/t gold and 0.268% copper.
- Hole KN-10-25A intersected 46.0 m of 1.43 g/t gold and 0.489% copper within a broader interval of 266 m, which returned 0.559 g/t gold and 0.261% copper.
- A higher grade zone in the northeast quadrant has been identified and is continuous and supported by several holes, including a previously-released hole KN-10-03, which returned one of the best intercepts in the Kemess resource database.
- The weighted average grade of all holes drilled in the 2010 program were higher than previous resource block estimates in the block cave zone by 12% for gold and 3.5% for copper.

"We are excited to have completed the 2010 drill program at Kemess Underground, which has exceeded our expectations" commented Ken Stowe, President and Chief Executive Officer. "Now that all assay results are in hand, we see further confirmation with hole KN-10-13 that a compact, continuous higher grade zone exists beneath the eastern third of the resource area currently being considered for a bulk underground mining operation. The 2010 results from the higher grade sector consistently exceed grades for both copper and gold when compared to the 2005 resource model. We now look forward to completing a new underground resource estimate, which is expected early in the first quarter of 2011 and will support studies to determine the economics of the potential underground mine at Kemess."

## Overview of the Kemess Underground Project and 2010 Exploration Program

The Kemess Underground diamond drill program, the final results of which are reported herein, was conducted in order to better define the 70+ million tonne proposed block cave portion of the Kemess North deposit estimated from previous drilling to contain in excess of 1.4 million ounces of gold and 500 million pounds of copper.

The Kemess Underground drill program was also designed to document the geotechnical characteristics of the higher grade core to determine the potential for large scale, underground, bulk mine production that could be milled at the existing Kemess infrastructure and utilize the existing permitted tailings capacity in the Kemess South pit.

The 2010 program in its entirety consisted of 30 drill holes totalling 16,439 m. Drilling contractors were successful in completing 26 holes to targeted depths. Only one drill hole from the program failed to intersect mineralization (hole 22), confirming the eastern fault-bound margin of the deposit. Geotechnical analysis is underway and the assay and geologic results from the 2010 program are being combined with previous drilling results in order to update the resource estimate for the 70+ million tonne, proposed block cave portion of the deposit. This updated resource estimate is expected to be released with Northgate's annual resource and reserve statement in the first quarter of 2011.

Figure 1: Plan showing collar locations of the final 16 holes drilled in 2010 relative to previous collars relative to block cave area outline.

<http://www.northgateminerals.com/Theme/Northgate/files/Releases/11-30F1.gif>

Figure 2: Plan showing area of resource within an interpreted 1.0 g/t gold grade shell relative to block cave area outline.

<http://www.northgateminerals.com/Theme/Northgate/files/Releases/11-30F2.gif>

## **2010 Drilling Results**

Table 1 below summarizes intersections for the final 16 holes of the 2010 drilling campaign. Intervals have been selected based on their position relative to a block cave mining outline designed from scoping study work completed earlier in 2010.

Table 1: Assay Results from 2010 Diamond Drill Holes - Final 16

Hole	From (m)	To (m)	Interval (m)	Cu %	Au (g/t)
KN-10-06	236.0	602.0	366.0	0.249	0.481
including	384.0	454.9	70.9	0.362	0.847
KN-10-11	365.0	536.0	171.0	0.242	0.398
including	409.0	460.0	51.0	0.275	0.528
KN-10-13	211.0	504.0	293.0	0.403	1.051
including	279.0	464.6	185.6	0.571	1.556
Including	369.0	449.0	80.0	0.783	2.397
KN-10-15	275.8	534.0	258.2	0.325	0.524
including	400.0	430.0	30.0	0.577	1.258
Including	458.0	482.0	24.0	0.625	0.897
KN-10-16	321.9	675.0	353.1	0.196	0.443
including	492.5	580.5	88.0	0.372	0.895
including	522.5	544.5	22.0	0.479	1.164
KN-10-17	214.5	543.0	328.5	0.268	0.609
including	312.0	471.0	159.0	0.402	0.931
including	350.5	410.0	59.5	0.516	1.149
KN-10-18	261.0	617.0	356.0	0.187	0.331
including	407.0	429.0	22.0	0.302	0.712
KN-10-19	190.0	343.8	153.8	0.268	0.772
including	240.0	343.8	103.8	0.275	0.930
KN-10-20	276.0	620.0	344.0	0.204	0.351
including	286.0	361.6	75.6	0.310	0.494
KN-10-21	196.9	356.3	159.44	0.121	0.337
including	196.9	228.0	31.1	0.098	0.352
and	324.2	356.3	32.1	0.471	0.968
KN-10-23	231.0	525.0	294.0	0.233	0.442
including	261.0	285.0	24.0	0.318	0.641
Including	397.0	423.0	26.0	0.281	0.473
KN-10-24	235.6	606.6	371.0	0.19	0.417
Including	487.9	527.0	39.1	0.307	0.729
KN-10-25A	308.0	574.0	266.0	0.261	0.559
Including	447.0	491.0	46.0	0.489	1.428
KN-10-26	267.0	564.0	297.0	0.265	0.616
including	426.0	468.0	42.0	0.338	0.839

## **2010 Results Compared to 2005 Open Pit Resource**

Comparison of all 2010 drill hole results against the previous 2005 Kemess North resource model shows that the current program's results are, on average, 12% higher for gold and 3.5% higher for copper, using a weighted average of resource blocks captured by a 20 x 20 m prism centered on each drill hole trace.

While the 2010 results show both positive and negative variance from the 2005 resource model, the comparison demonstrates that existing 2005 estimates are conservative globally and that a higher grade zone in the northeast quadrant, defined by holes KN-10-03, 05, 07A, 09A, 10, and 13, was significantly underestimated. These variations are believed to be attributable to the 2005 resource model being based on interpolation from wider-spaced drilling that was unconstrained with respect to important grade domains, such as different alteration and or geological controls, whereas the 2010 results now recognize these factors within the resource. With the benefit of the information provided by the 2010 results, it appears that the 2005 resource model tended to overestimate low grade regions and underestimate high grade regions. Work is now underway to update the resource for an underground mining scenario and to account for the distinct grade domains that exist in this subsection of the Kemess North deposit.

Appendix 1: All 2010 Diamond Drill Hole Collar Locations

Hole No.	East- ing	North- ing	Nad83E	Nad83N	Eleva- tion	Azi- muth	Dip	Total Depth	Comment
KN-10-01	10560	16182	636503	6326501	1681	255	-70	45.0	Abandoned
KN-10-01A	10560	16182	636504	6326502	1681	262	-75	602.0	
KN-10-02	10513	16005	636462	6326323	1705	257	-72	642.0	
KN-10-03	10706	16394	636642	6326718	1578	252	-71	504.0	
KN-10-04	10402	16298	636341	6326612	1712	253	-69	633.0	
KN-10-05	10713	16343	636651	6326668	1587	253	-71	561.0	
KN-10-06	10434	16221	636376	6326537	1703	246	-71	663.0	
KN-10-07	10599	16370	636536	6326691	1606	248	-70	339.0	Abandoned
KN-10-07A	10599	16370	636536	6326691	1606	248	-70	532.0	
KN-10-08	10494	16244	636435	6326562	1685	176	-76	612.0	
KN-10-09	10493	16246	636434	6326563	1685	0	-75	120.5	Abandoned
KN-10-09A	10494	16246	636435	6326563	1685	3	-74	620.0	
KN-10-10	10735	16256	636675	6326582	1616	247	-66	575.0	
KN-10-11	10753	16184	636210	6326494	1647	257	-69	575.0	
KN-10-12	10604	16140	636549	6326461	1681	358	-58	624.0	
KN-10-13	10624	16307	636563	6326629	1620	262	-69	549.0	
KN-10-14	10264	16146	636209	6326456	1786	332	-67	714.0	
KN-10-15	10647	16226	636588	6326548	1647	257	-69	584.0	
KN-10-16	10267	16147	636212	6326457	1786	25	-69	708.0	
KN-10-17	10554	16343	636492	6326662	1636	252	-65	612.0	
KN-10-18	10267	16141	636211	6326451	1786	192	-68	708.0	
KN-10-19	10688	16410	636624	6326733	1579	251	-71	527.0	
KN-10-20	10411	16027	636359	6326342	1722	252	-70	762.0	
KN-10-21	10783	16319	636721	6326646	1582	252	-77	477.0	
KN-10-22	10762	16389	636698	6326715	1574	249	-80	485.0	
KN-10-23	10355	16184	636298	6326497	1738	247	-71	671.0	
KN-10-24	10372	16109	636318	6326423	1728	255	-75	654.0	
KN-10-25	10464	16137	636405	6326457	1699	255	-75	100.6	Abandoned
KN-10-25A	10461	16141	636406	6326457	1699	253	-74	619.0	
KN-10-26	10520	16255	636461	6326573	1673	239	-72	621.0	

## **Quality Control - Analyses and Sample Location**

Details of quality assurance/quality control procedures for sample analysis and drill hole survey methodology are reported in detail in the Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101") compliant Technical Report filed on SEDAR ([www.sedar.com](http://www.sedar.com)) on May 6 2005. All 2010 drill holes have had their down hole surveys completed by non-magnetic based instruments such as gyroscope or DeviFlex.

## **Qualified Persons**

The program design, implementation, quality assurance/quality control and interpretation of the results are under the control of Northgate's geological staff, which includes a number of individuals who are qualified persons as defined under NI 43-101. Carl Edmunds, PGeo, Northgate's Exploration Manager, has reviewed the technical contents of this release.

## **Note to Investors:**

The terms "Qualified Person", "Mineral Reserve", "Proven Mineral Reserve", "Probable Mineral Reserve", "Mineral Resource", "Measured Mineral Resource", "Indicated Mineral Resource", and "Inferred Mineral Resource" used in this news release are defined in accordance with NI 43-101.

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