

Media Release

Claude Resources Inc.
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Trading Symbols
TSX – CRJ
NYSE Amex – CGR

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**CLAUDE RESOURCES INC. INTERCEPTS 86.70 METRES @ 1.03 G/TONNE
AT THE AMISK GOLD PROJECT, SASKATCHEWAN**
**‘HISTORIC DRILLING OF 2.39 G/TONNE OVER 165.12 METRES DEMONSTRATES BULK
POTENTIAL’**

Claude Resources Inc. (TSX-CRJ; NYSE Amex-CGR) (“Claude” or the “Company”) is pleased to announce that winter drilling results, as well as historic drill data, demonstrate the bulk potential of the Amisk Gold Property. The 12,000 hectare property is located 20 kilometres southwest of Flin Flon, Manitoba and hosts the Amisk-Laurel Gold Deposit.

As a first Phase, an eleven hole, 2,300 metre, winter drill program was completed. Results received for the first five holes of the 2010 winter drill program are presented in Table 1.

Table 1: Summary of 2010 Amisk-Laurel Gold Deposit intercepts received to date.

Hole	Easting	Northing	Az/Dip	From (m)	To (m)	Length (m)	Au (g/t)	Ag (g/t)
AL-10-271	9648	5045	180/-55	190.73	200.30	9.57	1.02	5.4
AL-10-272	9726	5151	180/-55	196.02	212.10	16.08	1.24	15.2
AL-10-273	9654	5223	180/-55	300.65	334.95	34.30	0.49	2.9
AL-10-275	9921	4925	64/-45	10.65	45.50	34.85	2.91	4.3
			<i>incl</i>	<i>12.18</i>	<i>13.00</i>	<i>0.82</i>	<i>13.27</i>	<i>8.0</i>
			<i>incl</i>	<i>15.27</i>	<i>16.11</i>	<i>0.84</i>	<i>39.22</i>	<i>15.2</i>
			<i>incl</i>	<i>32.00</i>	<i>33.00</i>	<i>1.00</i>	<i>28.89</i>	<i>26.5</i>
AL-10-278	9976	5059	180/-45	11.30	98.00	86.70	1.03	6.0
			<i>incl</i>	<i>44.00</i>	<i>46.00</i>	<i>2.00</i>	<i>14.94</i>	<i>4.4</i>

Note: Intervals noted are intercepted width not true width, have been calculated using a 0.3 g/tonne cut-off and are uncut. They may include internal dilution.

The Amisk Gold Project is a 65:35 joint venture between Claude and St. Eugene Mining Corporation. The 2010 exploration program is focused on the Amisk-Laurel Gold Deposit, specifically evaluating the bulk mining potential of the system and expanding the deposit.

The Amisk Gold Project has been the subject of significant historic exploration, with advanced exploration and underground bulk sampling completed in the late 1980’s by Cameco Corporation. Based on historical exploration and underground development, a 1988 prefeasibility study indicated mineable reserves of 185,000 tons at 0.44 oz/ton Au and 1.75 oz/ton Ag to a depth of 130 metres. A 0.15 oz/ton cut-off grade was utilized in

the calculations. These estimates are historical in nature and should not be viewed as National Instrument 43-101 compliant. Results from subsequent drilling programs by Cameco and SMDC were not considered in any resource calculations.

The Amisk-Laurel Gold Deposit is hosted within a rhyolite flow-dome complex and overlying pyroclastic tuffs and flows. High grade gold and silver mineralization is hosted within a series of moderately to shallowly-dipping, pyrite +/- chalcopyrite-sphalerite-tetrahedrite-galena-bearing sulphide vein systems. A compilation and analysis of historic drill data reveals that high grade vein systems are typically flanked by wide intervals of low grade mineralization associated with disseminated and stringer pyrite. Sampling within these lower grade domains is incomplete with all unsampled intervals composited at zero grade. Table 2 presents highlights from historic drilling. A complete list of significant composites for all historic drilling is available on the Company's website.

Table 2: Highlights of historic drill results from the Amisk-Laurel Gold deposit.

Hole	Easting	Northing	Az/Dip	From (m)	To (m)	Length	Au (g/t)	Ag (g/t)	Unsampled intervals (m)
AL96-219	9800	5175	176/-48	165.00	244.00	79.00	5.41	46.4	27.00
			<i>incl</i>	<i>237.00</i>	<i>239.00</i>	<i>2.00</i>	<i>192.60</i>	<i>1600.0</i>	
AL8-159	9937.5	5075	180/-66	6.00	202.77	196.77	2.09	7.6	85.86
			<i>incl</i>	<i>142.00</i>	<i>155.50</i>	<i>13.50</i>	<i>24.95</i>	<i>68.8</i>	
AL8-176	9937.5	5075	158/-65	13.80	178.92	165.12	2.39	14.6	2.80
			<i>incl</i>	<i>18.50</i>	<i>19.25</i>	<i>0.75</i>	<i>287.66</i>	<i>2019.4</i>	
			<i>incl</i>	<i>29.80</i>	<i>30.80</i>	<i>1.00</i>	<i>29.90</i>	<i>51.0</i>	
			<i>incl</i>	<i>99.00</i>	<i>100.00</i>	<i>1.00</i>	<i>43.92</i>	<i>164.6</i>	
AL6-44	10000	5125	180/-45	85.40	222.75	137.35	2.12	18.9	63.35
			<i>incl</i>	<i>142.00</i>	<i>160.75</i>	<i>18.75</i>	<i>10.95</i>	<i>100.8</i>	
AL5-05	10000	4952	180/-45	28.53	77.60	49.07	5.32	9.0	30.19
			<i>incl</i>	<i>29.26</i>	<i>31.09</i>	<i>1.83</i>	<i>112.43</i>	<i>144.6</i>	
AL7-096	10002	4937.5	0/-55	33.61	175.97	142.36	1.68	6.9	53.12
			<i>incl</i>	<i>56.63</i>	<i>57.13</i>	<i>0.50</i>	<i>23.35</i>	<i>134.1</i>	
			<i>incl</i>	<i>105.80</i>	<i>106.30</i>	<i>0.50</i>	<i>199.89</i>	<i>394.3</i>	
			<i>incl</i>	<i>108.80</i>	<i>110.30</i>	<i>1.50</i>	<i>16.14</i>	<i>63.1</i>	
AL6-54	9675	9975	180/-45	10.10	83.50	73.40	3.23	19.7	0.00
			<i>incl</i>	<i>16.00</i>	<i>17.00</i>	<i>1.00</i>	<i>17.69</i>	<i>136.1</i>	
			<i>incl</i>	<i>59.25</i>	<i>59.75</i>	<i>0.50</i>	<i>92.91</i>	<i>586.3</i>	
			<i>incl</i>	<i>73.00</i>	<i>74.30</i>	<i>1.30</i>	<i>44.23</i>	<i>139.2</i>	
AL7-108	9980	5175	171/-45	114.00	236.50	122.50	1.76	5.0	0.00
			<i>incl</i>	<i>163.25</i>	<i>164.25</i>	<i>1.00</i>	<i>24.79</i>	<i>42.9</i>	
			<i>incl</i>	<i>180.25</i>	<i>182.75</i>	<i>2.50</i>	<i>20.24</i>	<i>48.0</i>	
			<i>incl</i>	<i>211.25</i>	<i>211.75</i>	<i>0.50</i>	<i>152.57</i>	<i>68.9</i>	
AL97-259	10200	5075	270/-50	213.00	361.78	148.78	1.43	7.5	57.90
			<i>incl</i>	<i>253.00</i>	<i>254.00</i>	<i>1.00</i>	<i>76.55</i>	<i>340.0</i>	
			<i>incl</i>	<i>273.00</i>	<i>274.00</i>	<i>1.00</i>	<i>34.80</i>	<i>73.0</i>	
AL7-123	9975	5062.5	180/-45	16.72	158.90	142.18	1.38	7.7	21.43
			<i>incl</i>	<i>40.00</i>	<i>51.00</i>	<i>11.00</i>	<i>7.80</i>	<i>4.7</i>	
AL7-089	9975	5075	180/-45	10.10	146.03	135.93	1.41	6.0	23.25
			<i>incl</i>	<i>105.19</i>	<i>111.69</i>	<i>6.50</i>	<i>6.42</i>	<i>25.1</i>	
			<i>incl</i>	<i>144.03</i>	<i>145.03</i>	<i>1.00</i>	<i>81.60</i>	<i>181.0</i>	

AL96-243	9749.7	5299.8	180/-50	293.00	355.23	62.23	3.03	6.0	23.39
			<i>incl</i>	305.55	306.00	0.45	25.31	66.0	
			<i>incl</i>	343.42	346.00	2.58	47.19	16.5	
AL7-124	10000	5062.5	180/-47	36.00	124.00	88.00	1.85	11.4	0.00
			<i>incl</i>	39.00	40.00	1.00	12.86	74.0	
			<i>incl</i>	93.00	93.50	0.50	36.69	92.9	
			<i>incl</i>	101.25	102.25	1.00	11.18	41.0	
			<i>incl</i>	117.75	118.25	0.50	40.80	142.3	
AL98-266	10025	5200	180/-50	132.50	262.00	129.50	1.23	8.3	66.72
			<i>incl</i>	177.60	178.41	0.81	28.17	150.0	
			<i>incl</i>	251.00	255.40	4.40	18.17	119.5	
AL98-263	9825	5300	202/-50	323.70	392.90	69.20	2.23	7.9	30.60
			<i>incl</i>	382.30	389.30	7.00	18.33	44.3	
AL6-37	9975	5050	180/-45	30.25	149.80	119.55	1.25	3.7	41.71
			<i>incl</i>	78.40	79.40	1.00	49.44	56.2	
AL7-084	10025	5087.5	185/-45	24.16	149.13	124.97	1.17	9.0	31.92
			<i>incl</i>	24.66	25.16	0.50	21.02	153.6	
			<i>incl</i>	89.40	90.40	1.00	29.35	102.2	
AL8-151	9995	4875	58/-45	51.95	74.95	23.00	6.26	30.9	6.00
			<i>incl</i>	61.33	67.33	6.00	20.39	73.3	
AL7-105	9950	5075	180/-45	8.68	133.70	125.02	1.09	3.5	22.92
			<i>incl</i>	132.20	132.70	0.50	141.60	30.0	
AL7-107	10000	5075	180/-55	34.00	148.35	114.35	1.19	10.6	1.00
			<i>incl</i>	50.50	52.00	1.50	15.69	209.0	
AL8-156	10012	5000	180/-45	36.50	80.00	43.50	2.90	8.7	25.00
			<i>incl</i>	38.00	38.50	0.50	28.15	319.5	
			<i>incl</i>	60.00	61.50	1.50	65.51	41.8	
AL3-15	9921.5	4925	64/-45	20.29	156.53	136.24	0.82	0.9	21.61
AL8-168	10027	4908	13/-45	25.00	83.00	58.00	1.80	18.8	33.00
			<i>incl</i>	77.00	81.00	4.00	18.42	191.7	
AL9-203	9800	5275	180/-45	318.05	378.48	60.43	1.70	15.9	29.73
			<i>incl</i>	376.48	377.48	1.00	48.10	223.9	
AL6-28	10025	4925	180/-45	50.30	60.80	10.50	8.82	24.4	7.30
			<i>incl</i>	52.60	53.05	0.45	63.09	131.3	
			<i>incl</i>	58.30	58.40	0.10	562.29	1584.0	

Note: Intervals noted are intercepted width not true width, have been calculated using a 0.3 g/tonne cut-off and are uncut. They may include internal dilution and/or unsampled intervals. Unsampled intervals have been treated at zero grade for the purpose of composite calculation. Total width of unsampled intervals are noted. Historic assay results have been verified to the original assay certificate where possible; however, Quality Assurance and Quality Control procedures have not been verified.

“These initial drill results in conjunction with the historic drilling data outline an extensive, potentially bulk-mineable gold system. Infill sampling of historic drilling can only improve these composites,” stated Brian Skanderbeg, Vice President Exploration. “The system comes to surface and remains open at depth as well as along strike to the west and southeast.”

A summer exploration program, inclusive of resampling of historic core and further diamond drilling, is scheduled to begin in June.

A plan map of the Amisk Gold Property and detailed map showing historic and current drill collar locations can be viewed at Claude's website. www.clauderresources.com.

Claude Resources holds a 16.3% interest in St. Eugene's issued and outstanding common shares as of May 12th, 2010.

Brian Skanderbeg, P.Geo. and M.Sc., Claude's Vice-President Exploration, is the Qualified Person who has reviewed and approved the contents of this news release. Drill core was halved and samples averaging 1.0 to 1.5 meters were submitted to TSL Laboratories in Saskatoon, Saskatchewan, an ISO approved facility. Rigorous quality assurance and quality control procedures have been implemented including the use of blanks, standards and duplicates (1 in 20 samples). Core samples were analyzed by a 30 gram gold fire assay with an atomic absorption, conventional gravimetric and/or screen fire techniques.

Claude Resources Inc. is a public company based in Saskatoon, Saskatchewan, whose shares trade on the Toronto Stock Exchange (TSX-CRJ) and the NYSE Amex (NYSE Amex-CGR). Claude is a gold exploration and mining company with an asset base located entirely in Canada. Since 1991, Claude has produced approximately 880,000 ounces of gold from its Seabee mining operation in northeastern Saskatchewan. The Company also owns 100 percent of the 10,000 acre Madsen property in the prolific Red Lake gold camp of northwestern Ontario.

CAUTION REGARDING FORWARD-LOOKING INFORMATION

This Press Release may contain 'forward-looking' statements regarding the plans, intentions, beliefs and current expectations of the Company, its directors, or its officers with respect to the future business activities and operating performance of the Company. The words "may", "would", "could", "will", "intend", "plan", "anticipate", "believe", "estimate", "expect" and similar expressions, as they relate to the Company, or its management, are intended to identify such forward-looking statements. Investors are cautioned that any such forward-looking statements are not guarantees of future business activities or performance and involve risks and uncertainties, and that the Company's future business activities may differ materially from those in the forward-looking statements as a result of various factors. Such risks, uncertainties and factors are described in the periodic filings with the Canadian securities regulatory authorities, including the Company's Annual Information Form and quarterly and annual Management's Discussion & Analysis, which may be viewed on SEDAR at www.sedar.com. Should one or more of these risks or uncertainties materialize, or should assumptions underlying the forward-looking statements prove incorrect, actual results may vary materially from those described herein as intended, planned, anticipated, believed, estimated or expected. Although the Company has attempted to identify important risks, uncertainties and factors which could cause actual results to differ materially, there may be others that cause results not anticipated, estimated or intended. The Company does not intend, and does not assume any obligation, to update these forward-looking statements.

CAUTIONARY NOTE TO US INVESTORS CONCERNING RESOURCES ESTIMATES

The resource estimates in this document were prepared in accordance with National Instrument 43-101, adopted by the Canadian Securities Administrators. The requirements of National Instrument 43-101 differ significantly from the requirements of the United States Securities and Exchange Commission (the "SEC"). In this document, we use the terms "measured," "indicated" and "inferred" resources. Although these terms are recognized and required in Canada, the SEC does not recognize them. The SEC permits US mining companies, in their filings with the SEC, to disclose only those mineral deposits that constitute "reserves". Under United States standards, mineralization may not be classified as a reserve unless the determination has been made that the mineralization could be economically and legally extracted at the time the determination is made. United States investors should not assume that all or any portion of a measured or indicated resource will ever be converted into "reserves." Further, "inferred resources" have a great amount of uncertainty as to their existence and whether they can be mined economically or legally, and United States investors should not assume that "inferred resources".

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