

## PRESS RELEASE

March 21, 2011 Concord, New Hampshire 2011-07 JAG - TSX/NYSE

## Jaguar Mining Reports Q4 and FY 2010 Earnings

Jaguar Mining Inc. ("Jaguar" or the "Company") (JAG: TSX/NYSE) reports its financial and operational results for the period ended December 31, 2010. The Company is also providing the date it intends to issue its preliminary Q1 2011 operating results and progress within this release. All figures are in U.S. dollars unless otherwise indicated.

## FY 2010 Highlights

- Revenue of \$170.8 million, an increase of 21% over 2009.
- Net loss of \$23.8 million or (\$0.28) per basic and fully diluted share for the year ended December 31, 2010 compared to a net loss of \$8 million or (\$0.10) per basic and fully diluted share for the same period in 2009. Adjusted net loss, excluding special non-operating and non-recurring charges, totaled \$12.2 million or (\$0.15) per share (*See Non-GAAP Performance Measures*).
- Gross profit of \$12.4 million, a decrease of 71% from 2009, largely due to higher operating costs caused by the stronger Brazilian real and geo-mechanical operational issues at Jaguar's Turmalina mining operation.
- Gold production of 137,867 ounces at an average cash operating cost of \$732 per ounce compared to 148,742 ounces at an average cash operating cost of \$462 per ounce during 2009 (see *Non-GAAP Performance Measures*). The primary reason for the decline in production was primarily attributable to the geo-mechanical problems at the Turmalina Mine during the second half of 2010. The Sabará operation has been excluded from the 2009 figures as it was placed on long-term care and maintenance during the second half of 2009.
- Cash generated by operating activities totaled \$19.6 million, a decrease of 39% from 2009.
- Investments of \$131.9 million in growth projects, an increase of 54% from 2009.
- As of December 31, 2010, the Company held cash, cash equivalents and short-term investments of approximately \$39.2 million. On February 9, 2011, the Company closed a \$103.5 million private offering of convertible notes that increased its cash and short term investments to \$119.5 million as of February 28, 2011.
- Achieved underground development targets by completing 18.8 kilometers of development.
- Commissioned the Caeté operation, Jaguar's third integrated mining-processing facility.

## Q4 2010 Highlights

- Revenue of \$44.6 million, an increase of 13% over 2009.
- Net loss of \$9.5 million or (\$0.11) per basic and fully diluted share compared to a net loss of \$29.4 million or (\$0.36) per basic and fully diluted share in Q4 2009. Adjusted net loss, excluding special non-operating and non-recurring charges, totaled \$6.4 million or (\$0.08) per basic and fully diluted share compared to a Q4 2009 adjusted net loss of \$3.7 million or (\$0.05) per basic and fully diluted share in Q4 2009. *(See Non-GAAP Performance Measures).*
- Gross profit of \$2.8 million, a decrease of 73% from Q4 2009.
- Gold production of 34,682 ounces at an average cash operating cost of \$762 per ounce compared to 39,891 ounces at an average cash operating cost of \$539 per ounce in Q4 2009 (see *Non-GAAP Performance Measures*). The decrease in production from the prior year was largely attributable to management's decision to halt ore production in the Turmalina Ore Body A due to geo-mechanical issues during the quarter and divert efforts to forward development.
- Cash generated by operating activities totaled \$24,000, a decrease of 98% from Q4 2009. Cash flow from operations, excluding changes in non-cash operating working capital, totaled approximately \$3 million in Q4 2010 (see *Non-GAAP Performance Measures*).
- Investments of \$22.6 million in growth projects in Q4 2010, a decrease of 31% from Q4 2009.

Commenting on the 2010 performance, Daniel R. Titcomb, Jaguar's President and CEO stated, "We faced a challenging year at our Turmalina and Paciência operations where both production and cash operating costs were adversely affected. Over the past eight months, our operating teams have worked diligently to improve these operations into healthier, more productive and sustainable mines. Turmalina required a change in the mining method, which we completed in early-2011. At each of our underground mines we have significantly increased the backfill systems and development of the infrastructure, adding more stopes and faces which adds to our flexibility. Through this effort, we now have between 10 and 18 months of fully developed reserves, ready for mining to support our 2011 production target. Our progress is in part tied to recent management changes implemented in the operations. We expect significant improvements as we move through 2011. As important, the successful commissioning of our new Caeté operation, the third such integrated mining complex we have built, should represent a significant source of gold production and a platform for further growth for years to come."

## **Summary of Key Operating Results**

The following is a summary of key operating results.

	Three Months Ended December 31					r Ended mber 31		
	2	2010		2009		2010		2009
(unaudited)								
(\$ in 000s, except per share amounts)								
Gold sales	\$	44,554	\$	39,497	\$	170,788	\$	140,734
Ounces sold		34,134		35,944		140,530		143,698
Average sales price \$ / ounce		1,306		1,099		1,215		979
Gross profit		2,777		10,363		12,420		42,583
Net income (loss)		(9,474)		(29,381)		(23,792)		(7,992)
Basic income (loss) per share		(0.11)		(0.36)		(0.28)		(0.10)
Diluted income (loss) per share		(0.11)		(0.36)		(0.28)		(0.10)
Weighted avg. # of shares outstanding - basic	84	,259,191	8	30,738,919	8	4,152,914	76	,410,916
Weighted avg. # of shares outstanding - diluted	84	,259,191	8	80,738,919	8	4,152,914	76	,410,916

Additional details are available in the Company's filings on SEDAR and EDGAR, including Management's Discussion and Analysis of Financial Condition and Results of Operations and Consolidated Financial Statements for the year ended December 31, 2010.

## Q1 2011 Update of Operations

The Company intends to provide an update of its preliminary Q1 2011 operating results on Tuesday, April 19, 2011. In aggregate, the Company expects to produce between 38,000 and 40,000 ounces of gold for the quarter ending March 31, 2011. The first quarter results are consistent with the initiatives the Company implemented during the second half of 2010 and its 2011 target of between 195,000 and 205,000 ounces.

### **Non-GAAP Performance Measures**

The Company has included the non-GAAP performance measures discussed below in this press release. These non-GAAP performance measures do not have any standardized meaning prescribed by Canadian GAAP ("GAAP") and, therefore, may not be comparable to similar measures presented by other companies. The Company believes that, in addition to conventional measures prepared in accordance with GAAP, these non-GAAP measures provide investors with additional information that will better enable them to evaluate the Company's performance. Accordingly, these Non-GAAP measures are intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared with GAAP.

The Company has included cash operating cost per tonne processed, cash operating cost per ounce produced and cash operating margin per ounce because it believes these figures are a useful indicator of a mine's performance as they provide: (i) a measure of the mine's cash margin per ounce, by comparison of the cash operating costs per ounce to the price of gold; (ii) the trend in costs as the mine matures; and (iii) an internal benchmark of performance to allow for comparison against other mines. Additionally, the Company has provided adjusted net income, which reflects the elimination of special non-operating and certain non-recurring charges that do not reflect on-going costs in Jaguar's operations or administrative costs; and cash flow from operations, which does not reflect the change in non-cash operating working

capital. The definitions for these performance measures and reconciliation of the non-GAAP measures to reported GAAP measures are set out in the following tables.

## Adjusted Net Loss Non-GAAP Measure (\$000s except per share amounts)

	 nree Months of December 31, 2010	1	Year Ended December 31, 2010
Net (loss) as reported	\$ (9,474)	\$	(23,792)
Adjustments:			
Non-cash interest expense	2,074		8,098
Additional depletion on unconverted resources	-		1,800
Loss on forward derivatives	686		686
Loss on sale of Sabará inventory	-		677
Write-down of Sabará operation	313		313
Adjusted net income (loss)	\$ (6,401)	\$	(12,218)
Adjusted EPS	\$ (0.08)	\$	(0.15)
Cash Flow From Operations			
Non GAAP Measure			

\$ in thousands (except per share amounts)	 Ionths Ended nber 31, 2010	Year Ended December 31, 2010		
Cash provided by operating activities as reported				
Net income (loss)	\$ (9,474)	\$	(23,792)	
Items not involving cash:				
Unrealized foreign exchange (gain) loss	(203)		(151)	
Stock-based compensation	1,109		(1,571)	
Non-cash interest expense	2,074		8,098	
Accretion expense	520		1,697	
Future income taxes	(981)		172	
Depletion and amortization	10,746		39,322	
Write down on Sabara property	313		313	
Unrealized (gain) loss on forward sales derivatives	(1,502)		-	
Unrealized (gain) loss on foreign exchange contracts	509		1,111	
Disposition of property	-		(4,625)	
Accretion of interest revenue	(94)		(188)	
Reclamation expenditure	 (51)		(1,662)	
Cash provided by operating activities before change in non cash				
operating working capital	2,966		18,724	
Cash provided by operating activities per share	\$ 0.04	\$	0.22	

Cash Operating Margin per oz of gold	_	hree Months ed December 31, 2010	Year Dec	Ended cember 31, 2010
Average sales price per oz of gold <i>less</i>	\$	1,306	\$	1,215
Cash operating cost per oz of gold produced <i>equals</i>		762		732
Cash operating margin per oz of gold	\$	544	\$	483

The following tables set forth certain operating data for Turmalina, Paciência and Caeté for the three and twelve months ended December 31, 2010 and 2009.

	Ore Processed (t 000)	Feed grade (g/t)	Plant Recovery rate	Production (ounces)	Оре	Cash erating cost/t	•	Cash erating ounce
Turmalina	143	2.89	88%	10,275	\$	66.70	\$	899
Paciência	135	3.57	94%	13,808		61.80		628
Caeté	156	2.84	88%	10,599		63.40		804
Total	434	3.09	92%	34,682	\$	64.00	\$	762

## Quarter Ended December 31, 2010 Operating Data

#### Year Ended December 31, 2010 Operating Data

	Ore Processed (t 000)	Feed grade (g/t)	Plant Recovery rate	Production (ounces)	Оре	Cash erating cost/t	•	Cash trating ounce
Turmalina	692	3.20	87%	59,481	\$	64.50	\$	774
Paciência	626	3.32	93%	59,287		60.90		670
Caeté	258	2.85	91%	19,099		63.10		792
Total	1,576	3.19	90%	137,867	\$	62.80	\$	732

## Quarter Ended December 31, 2009 Operating Data

-	Ore Processed (t 000)	Feed grade (g/t)	Plant Recovery rate	Production (ounces)	Оре	Cash erating cost/t	•	Cash erating ounce
Turmalina	179	3.93	89%	21,184	\$	63.00	\$	523
Paciência	178	3.41	93%	18,707		59.30		556
Caeté	-	-	-	-		-		-
Total	357	3.67	91%	39,891	\$	61.20	\$	539

#### Year Ended December 31, 2009 Operating Data

	Ore Processed (t 000)	Feed grade (g/t)	Plant Recovery rate	Production (ounces)	Ор	Cash erating cost/t	 Cash erating ounce
Turmalina	588	4.81	89%	82,071	\$	59.60	\$ 424
Paciência	646	3.42	93%	66,671		51.20	502
Caeté	-	-	-	-		-	-
Total	1,234	4.14	91%	148,742	\$	55.50	\$ 462

The following tables are included in Jaguar's audited financial statements as filed on SEDAR and EDGAR. Readers should refer to those filings for the associated footnotes which are an integral part of the tables.

## **JAGUAR MINING INC.**

Consolidated Balance Sheet (Expressed in thousands of U.S. dollars)

	December 31, Dece			ecember 31,	
		2010		2009	
Assets					
Current assets:					
Cash and cash equivalents	\$	39,223	\$	121,256	
Inventory		31,495		36,986	
Prepaid expenses and sundry assets		24,523		19,050	
Unrealized foreign exchange gains		168		1,280	
		95,409		178,572	
Prepaid expenses and sundry assets		48,582		35,837	
Net smelter royalty		1,006		1,006	
Restricted cash		908		108	
Property, plant and equipment		343,363		205,329	
Mineral exploration projects		90,008		129,743	
	\$	579,276	\$	550,595	
Liabilities and Shareholders' Equity					
Current liabilities:					
Accounts payable and accrued liabilities	\$	27,853	\$	22,892	
Notes payable		26,130		5,366	
Income taxes payable		16,677		15,641	
Asset retirement obligations		2,167		510	
Deferred compensation liability		2,436		-	
Other liabilities		704		-	
		75,967		44,409	
Notes payable		141,766		126,784	
Future income taxes		12,558		11,821	
Asset retirement obligations		19,462		12,331	
Deferred compensation liability		3,816		8,616	
Other liabilities		497		738	
Total liabilities		254,066		204,699	
Shareholders' equity					
Common shares		369,747		365,667	
Stock options		13,054		14,762	
Contributed surplus		42,762		42,028	
Deficit		(100,353)		(76,561)	
Commitments		325,210		345,896	
Subsequent events					
· · · · ·	\$	579,276	\$	550,595	

# JAGUAR MINING INC.

Consolidated Statements of Operations and Comprehensive Loss (Expressed in thousands of U.S. dollars, except per share amounts)

		Year Ended	Year Ended	Year E	
	[	December 31,	December 31,	Decemb	,
		2010	2009		2008
Gold sales	\$	170,788	\$ 140,734	\$ 93	3,657
Production costs		(119,124)	(74,287)	(53	3,610)
Stock-based compensation		(482)	(600)	·	(24)
Depletion and amortization		(38,762)	(23,264)	(12	2,669)
Gross profit		12,420	42,583	27	7,354
Operating expenses:					
Exploration		3,553	3,079	3	3,536
Stock-based compensation		(2,053)	10,644	1	1,238
Administration		20,600	16,411	12	2,571
Management fees		1,131	1,604		854
Amortization		560	452		264
Accretion expense		1,697	786		490
Other		5,051	2,440		379
Total operating expenses		30,539	35,416	19	9,332
Income (loss) before the following		(18,119)	7,167	8	3,022
Loss on forward derivatives		686	-		318
Loss (gain) on forward foreign exchange derivatives		(1,391)	(2,642)	2	2,623
Foreign exchange gain		(1,697)	(17,307)	(2	2,477)
Interest expense		16,638	28,847		1,584
Interest income		(3,870)	(4,203)		3,850)
Gain on disposition of property		(6,794)	(2,043)	,	(452)
Write down on Sabará property		313	3,522		-
Other non-operating expenses		-	145		-
Total other expenses		3,885	6,319	7	7,746
Income (loss) before income taxes		(22,004)	 848		276
Income taxes					
Current income taxes		1,616	4,979	6	6,172
Future income taxes (recovered)		172	3,861	(1	1,640)
Total income taxes		1,788	8,840	2	1,532

## JAGUAR MINING INC.

Consolidated Statements of Cash Flows (Expressed in thousands of U.S. dollars)

		Year Ended	Year Ende	
	D	ecember 31, 2010	December 31 200	
Cash provided by (used in):				
Operating activities:				
Net loss and comprehensive loss for the year	\$	(23,792)	\$ (7,992	.) \$ (4,256)
Items not involving cash:	Ψ	(20,702)	φ (1,002	φ (4,200)
Unrealized foreign exchange gain		(151)	(3,227	(3,471)
Stock-based compensation		(1,571)	7,962	
Non-cash interest expense		8,098	15,320	
Accretion of interest revenue		(188)	10,020	
Accretion expense		1,697	786	490
Future income taxes (recovered)		172	3,861	
Depletion and amortization		39,322	23,716	
Write down on Sabará property		313	3,522	
Amortization of net smelter royalty		-	0,022	219
Unrealized loss (gain) on foreign exchange contracts		1,111	(3,701	
Gain on disposition of property		(4,625)	(0,701	,102
Reclamation expenditure		(1,662)	(328	
Change in non-cash operating working capital		(1,002)	(020	7
Inventory		8,064	(11,106	) (4,361
Prepaid expenses and sundry assets		(12,607)	(13,612	
Accounts payable and accrued liabilities		4,960	9,707	
Current taxes payable		1,036	7,015	
Deferred compensation liabilities		(546)	7,010	
		19,631	31,923	(1,410
Financing activities:		,	,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Issuance of common shares, special				
warrants and warrants, net		2,895	114,294	105,803
Shares purchased for cancellation		-	-	(6,381
Settlement of forward derivatives		-	-	(14,500)
Decrease (increase) in restricted cash		(800)	2,998	
Repayment of debt		(4,158)	(84,614	•
Increase in debt		31,099	118,204	
Other long term liabilities		463	738	
		29,499	151,620	70,112
Investing activities				
Mineral exploration projects		(29,275)	(25,200	) (37,087)
Purchase of property, plant and equipment		(102,089)	(60,300	
Proceeds from disposition of property		1,250	-	· -
		(130,114)	(85,500	) (89,297)
Effect of foreign exchange on non-U.S. dollar denominated				
cash and cash equivalents		(1,049)	2,653	(4,556
Increase (decrease) in cash and cash equivalents		(82,033)	100,696	(25,151)
Cash and cash equivalents, beginning of year		121,256	20,560	
Cash and cash equivalents, end of year	\$	39,223	\$ 121,256	\$ 20,560

### **Conference Call Details**

The Company will hold a conference call tomorrow, March 22 at 10:00 a.m. EDT, to discuss the results.

From North America:	800-392-9307
International:	213-416-2192
Replay:	
From North America:	800-675-9924
International:	213-416-2185
Replay ID:	32211
Webcast:	www.jaguarmining.com

A presentation will be available prior to the call on the Company's homepage at <u>www.jaguarmining.com</u>.

#### **About Jaguar Mining**

Jaguar is a junior gold producer in Brazil with operations in a prolific greenstone belt in the state of Minas Gerais and is developing the Gurupi Project in northern Brazil in the state of Maranhão. Based on its development plans, Jaguar is one of the fastest growing gold producers in Brazil. The Company is actively exploring and developing additional mineral resources at its approximate 256,300-hectare land base in Brazil. Additional information is available on the Company's website at www.jaguarmining.com.

For Information:					
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#### Forward Looking Statements

This press release contains a forward-looking statement, within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and applicable Canadian securities laws, concerning the Company's belief that Caeté should represent a significant source of gold production for years to come. Forward-looking statements involve known and unknown risks, uncertainties and other factors, which may cause the actual results, or performance to be materially different from any future results or performance expressed or implied by the forward-looking statements.

These factors include the inherent risks involved in the exploration and development of mineral properties, the uncertainties involved in interpreting drilling results and other geological data, fluctuating gold prices and monetary exchange rates, the possibility of project cost delays and overruns or unanticipated costs and expenses, uncertainties relating to the availability and costs of financing needed in the future, uncertainties related to production rates, timing of production and the cash and total costs of production, changes in applicable laws including laws related to mining development, environmental protection, and the protection of the health and safety of mine workers, the availability of labor strikes and work stoppages and changes in general economic conditions. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended.

This forward-looking statements represents our view as of the date of discussion. The Company anticipates that subsequent events and developments may cause the Company's views to change. The Company does not undertake to update any forward-looking statements, either written or oral, that may be made from time to time by or on behalf of the Company subsequent to the date of this discussion except as required by law. For a discussion of important factors affecting the Company, including fluctuations in the price of gold and exchange rates, uncertainty in the calculation of mineral resources, competition, uncertainty concerning geological conditions and governmental regulations and assumptions underlying the Company's forward-looking statements, see the "CAUTIONARY NOTE" regarding forward-

looking statements and "RISK FACTORS" in the Company's Annual Information Form for the year ended December 31, 2010 filed on System for Electronic Document Analysis and Retrieval and available at <u>http://www.sedar.com</u> and the Company's Annual Report on Form 40-F for the year ended December 31, 2010 filed with the United States Securities and Exchange Commission and available at www.sec.gov.