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IMA EXPLORATION INC  
Form 6-K  
May 31, 2006

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER  
THE SECURITIES EXCHANGE ACT OF 1934

For the month of May, 2006.

Commission File Number: 001-32558

IMA EXPLORATION INC.

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(Translation of registrant's name into English)

#709 - 837 West Hastings Street, Vancouver, British Columbia, V6C 3N6, Canada  
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(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports  
under cover of Form 20-F or Form 40-F: FORM 20-F  FORM 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as  
permitted by Regulation S-T Rule 101(b)(1): \_\_\_\_\_

Indicate by check mark if the registrant is submitting the Form 6-K in paper as  
permitted by Regulation S-T Rule 101(b)(7): \_\_\_\_\_

Indicate by check mark whether the registrant by furnishing the information  
contained in this Form, is also thereby furnishing the information to the  
Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.  
YES  NO

If "Yes" is marked, indicate below the file number assigned to the registrant in  
connection with Rule 12g3-2(b): 82-\_\_\_\_\_

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the  
registrant has duly caused this report to be signed on its behalf of the  
undersigned, thereunto duly authorized.

IMA EXPLORATION INC.  
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Date: May 30, 2006  
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/s/ Joseph Grosso  
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Joseph Grosso,  
President & CEO

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TSX Venture Exchange: IMR American Stock Exchange: IMR  
Frankfurt & Berlin Exchanges: IMT (WKN 884971)

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NEWS RELEASE - MAY 30, 2006

### UPDATE ON PHASE IV DRILLING FOR IMA'S NAVIDAD

IMA EXPLORATION INC. (IMR-AMEX, IMR-TSX.V) is pleased to announce results from 21 diamond drill holes at its Navidad Silver Project in Patagonia, Argentina, from the Phase IV drilling program that commenced in January of 2006. To date at Navidad IMA has drilled over 53,000 metres, announced the results from 307 diamond drill holes, and defined an Indicated Resource of 305.7 million ounces of silver and 2.9 billion pounds of lead (93.4 million tonnes at 102 g/t silver and 1.41 % lead using a 50 g/t silver equivalent cut-off). Results reported herein include results from the Esperanza Trend and Galena Hill.

Highlights of the drilling at Esperanza Trend include hole NV06-290 with 21.0 metres (m) averaging 272 grams/tonne (g/t) silver including two higher-grade sections of 10.41m averaging 413 g/t silver and 4.43m of 291 g/t silver. Hole NV06-300, also at Esperanza, averaged 800 g/t silver over 2.33m (see Map 1). Phase IV drilling to date has focused on further defining the Calcite NW and Calcite Hill deposits, testing the Esperanza Trend, and as well as infill drilling on Galena Hill for resource estimation purposes and to obtain material for metallurgical testwork.

A portion of the Galena Hill deposit has been drilled on tight centres to allow calculation of the optimal drill spacing to reclassify the current Indicated Resource as a Measured Resource and to collect additional material for metallurgical testing. The final eight holes of this twenty-three hole program are included in this release. As expected, infill drilling at Galena Hill produced long intercepts of silver and lead mineralization. An example of one of the Galena Hill infill holes is NV06-307 with 135m containing 150 g/t silver and 3.99 percent (%) lead with a higher-grade, upper-part of 50.01m, starting at just 26m depth, that contains 350 g/t silver and 7.92 % lead. Similarly hole NV06-302 produced 127.15m averaging 112 g/t silver and 3.18 % lead including a higher-grade interval of 41.56m averaging 183 g/t silver and 5.85 % lead in its upper portion. For convenience, the silver equivalent values including lead have been shown in the table of results. In many cases the lead accounts for as much as half of the potential metal value at Galena Hill (see formula in the foot notes of table for details of the calculation method). With these results now in hand, the technical work of optimizing drill hole spacing and selection of composite metallurgical samples is underway.

Drilling resumed May 15th after a short break. Prior to the break a total of 11,081m in 56 holes were drilled in Phase IV all of which are now reported on with this release.

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A summary of collar locations and hole orientations and lengths is available on IMA's website (WWW.IMAEXPLORATION.COM), as is a summary of IMA's rigorous quality-control and quality-assurance procedures. Dr. Paul Lhotka is IMA's "Qualified Person" at the Navidad project and has supervised all aspects of the current technical program and has reviewed the contents of this release.

ON BEHALF OF THE BOARD

/s/Joseph Grosso

Mr. Joseph Grosso, President & CEO

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For further information please contact Joseph Grosso, President & CEO, or Sean Hurd, Vice President, Investor Relations, at 1-800-901-0058 or 604-687-1828, or fax 604-687-1858, or by email [info@imaexploration.com](mailto:info@imaexploration.com), or visit the Company's web site at <http://www.imaexploration.com>.

The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or the accuracy of this release. CAUTIONARY NOTE TO US INVESTORS: This news release may contain information about adjacent properties on which we have no right to explore or mine. We advise U.S. investors that the SEC's mining guidelines strictly prohibit information of this type in documents filed with the SEC. U.S. investors are cautioned that mineral deposits on adjacent properties are not indicative of mineral deposits on our properties. This news release may contain forward-looking statements including but not limited to comments regarding the timing and content of upcoming work programs, geological interpretations, receipt of property titles, potential mineral recovery processes, etc. Forward-looking statements address future events and conditions and therefore involve inherent risks and uncertainties. Actual results may differ materially from those currently anticipated in such statements.

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TABLE 1. PHASE IV DRILL RESULTS

DDH	LOCATION	FROM (metres)	TO (metres)	COMPOSITE LENGTH (metres) (1)	(LWA) (2) SILVER (g/t)	(LWA) (2) LEAD (%)
NV06-287	Esperanza Trend	56.00	61.37	5.37	74	0.10

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NV06-288	Esperanza Trend	none				
NV06-289	Esperanza Trend	46.20	59.00	11.28	23	0.06
NV06-290	Esperanza Trend	83.00	104.00	21.00	272	0.08
including		83.00	87.43	4.43	291	0.14
and		93.59	104.00	10.41	413	0.09
NV06-291	Esperanza Trend	75.18	78.63	3.45	70	1.74
and		92.00	98.00	6.00	71	0.63
NV06-292	Esperanza Trend	131.00	134.00	3.00	222	1.01
and		153.94	157.17	3.23	80	0.34
and		165.39	171.15	5.76	35	1.40
NV06-293	Esperanza Trend	none - hole abandoned after failing to reach target				
NV06-294	Esperanza Trend	none - hole abandoned after failing to reach target				
NV06-295	Galena Hill	25.30	107.77	82.47	189	4.23
including		27.11	51.14	24.03	488	9.69
NV06-296	Galena Hill	62.90	166.28	103.38	106	4.10
including		95.64	136.56	40.92	159	5.92
NV06-297	Esperanza Trend	none				
NV06-298	Esperanza Trend	none - hole abandoned after failing to reach target				
NV06-299	Esperanza Trend	none				
NV06-300	Esperanza Trend	162.63	194.86	32.23	68	0.66
including		162.63	175.32	12.69	17	1.59
including		192.53	194.86	2.33	800	0.15

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DDH	LOCATION	FROM (metres)	TO (metres)	COMPOSITE LENGTH (metres) (1)	(LWA) (2) SILVER (g/t)	(LWA) (2) LEAD (%)
V06-301	Esperanza Trend	162.14	168.41	6.27	44	1.94
and		211.70	214.70	3.00	78	0.79
and		240.54	243.38	2.84	82	0.01
NV06-302	Galena Hill	35.00	162.15	127.15	112	3.18
including		76.01	117.57	41.56	183	5.85
NV06-303	Galena Hill	47.00	137.00	90.00	82	2.89

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	including		47.00	101.00	54.00	123	4.13
	including		53.00	92.00	39.00	149	4.81
NV06-304	Galena Hill		28.70	126.26	97.56	115	3.58
	including		28.70	82.60	53.90	168	4.89
NV06-305	Galena Hill		41.00	175.15	134.15	66	2.81
	including		41.00	102.70	61.70	104	4.70
NV06-306	Galena Hill		32.00	144.16	112.16	166	6.35
	including		35.00	84.19	49.19	292	9.21
NV06-307	Galena Hill		26.00	161.00	135.00	152	3.99
	including		26.00	119.00	93.00	211	5.22
	including		26.00	76.01	50.01	350	7.92

Notes:

1. True thickness has not been calculated for these holes.
2. All length weighted averages (LWA) are "uncut" ie have no grade capping.
3. Silver equivalent calculated using US\$6.00/oz silver and \$0.35/lb lead. (AgEq = Ag + (%Pb\*10,000/250). No attempt has been made to adjust these relative values by accounting for metallurgical recoveries as insufficient information is available to do so. This the same method as used in the resource calculation released on February 16, 2006.
4. A complete list of all results to date is available on IMA's website (www.imaexploration.com).

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Map 1: Esperanza Drill Hole Location

[GRAPHIC OMITTED][GRAPHIC OMITTED]

Omitted graphic is map showing the Esperanza Trend and Galena Hill locations

Showing approximate results of Holes and lcoations released May 2006  
(not inlcuded in February 16, 2006 Resources Estimate)

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Map may be viewed at the Company's website: [www.imaexploration.com](http://www.imaexploration.com)