Masan Resources

Update on Nui Phao Project in Northern Vietnam

ITIA September 2012

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Vietnam

Vietnam – Key Stats



Summary

- Population 91 million (2012 est.)
 - 50 million <30 years old, 70% reside in rural areas</p>
 - Labour Force: 46.5 million (2011 est.)
- Government
 - Socialist One Party Republic
- GDP
 - Growth rate: averaged 7.2% last 10 years
 - Principal Exports: crude oil, marine products, agriculture, garments, shoes
 - Main Imports: machinery/equipment, petroleum products, fertilizer, steel products, raw cotton, grain
 - US\$123 billion (2011)
- WTO Member since 2007





Nui Phao an Ideal Platform for Building Masan Resources

Masan Resources



- Vietnamese company with internationally experienced management and local execution team
- Building a US\$2 billion enterprise by end of 2015
- Growth through M&A in the short-term, exploration for the medium to long-term
- We will consider opportunities:
 - Within Vietnam
 - Indochina region
 - Within the industry



Nui Phao a Unique Asset of Scale That Has Made Significant Progress



Summary One of the largest tungsten mines in the world with significant CHINA deposits of fluorspar, bismuth and copper Unique Polymetallic mine provides exposure to diverse range of Asset commodities HANOI Located approximately 80 km by road from Hanoi THAILAND Road and Rail links to Hai Phong and Quang Ninh ports provide Location convenient methods for transportation of products to rest of the world Da Nang As a low strip ratio open-pit mine, with 4 product streams Nui Phao will be a low tungsten cost producer. **Low Cost** Vietnam **Operations** Local workforce, supplemented by expatriate supervision with regional experience. Over US\$300 million already invested into the project1 Validated Geological model, proven and probable reserves, Significant mine plan and flow-sheet **Progress** Plant commissioning scheduled for end of Q1 2013.

¹ As of July, 2012



Well Defined Resources

Reputable Firms Have Validated Mineral Resources and Reserves MAS



Summary

Resource/Reserve Estimation

- Resource & Reserve re-estimated by Cube Consulting (2011), in accordance with the JORC Code
- 295 holes used for Resource estimation
- In addition to historical drilling from 2000 to 2008 covering approx. 24,000 meters, conducted further in-fill drilling program in 2011

Ore Resources ¹						
Category	Tonnes ('000)	Tungsten (%)	Fluorspar (%)	Copper (%)	Bismuth (%)	Gold (g/t)
Measured + Indicated	65,010	0.20	8.40	0.19	0.09	0.20
Inferred	32,400	0.15	6.40	0.17	0.07	0.14
Measured + Indicated + Inferred	97,410	0.18	7.73	0.18	0.08	0.18

Ore Reserves						
Category	Tonnes ('000)	Tungsten (%)	Fluorspar (%)	Copper (%)	Bismuth (%)	Gold (g/t)
Proven	25, 200	0.26	8.31	0.25	0.12	0.27
Probable	27,350	0.17	7.71	0.17	0.08	0.18
Proven + Probable	52,550	0.21	8.00	0.21	0.10	0.22

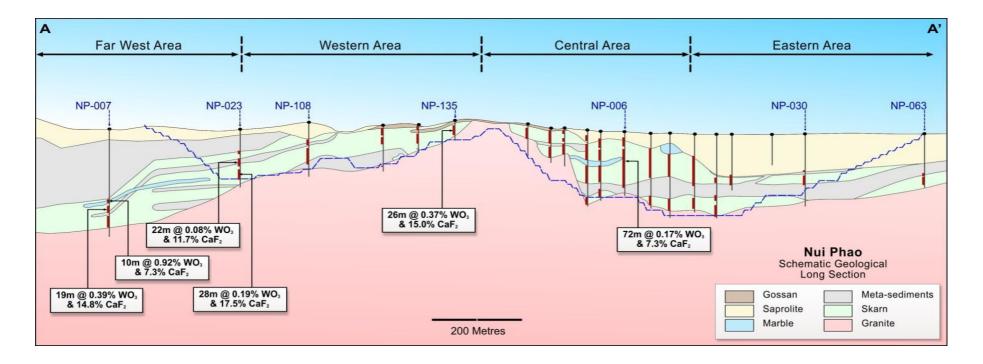
¹ 0.1% Tungsten equivalent cutoff

Nui Phao Resource Highlights



Summary

- Mineralization tested over ~1,600m
- Ore dips ~45° to the north, ore zones vary from 10m +150m
- Mineralization open to the west, and will be subject to further drilling in 2013





Key Licenses and Approvals

Key Licenses and Approvals in Place



Item	Current Status
Investment Certificate	 New Investment Certificate recognizing new ownership and converting Nui Phao into wholly Vietnamese-owned enterprise issued by Thai Nguyen Provincial People's Committee on July 21, 2010 Investment Certificate valid till 2034
Mining License	 Mining License re-issued by MONRE on September 21, 2010 Mining License authorizes the Company to mine the tungsten, fluorite, bismuth, copper and gold resources at the Nui Phao mining area of 90 hectares through open pit mining till 2028
Environment Impact Assessment (EIA)	 Updated EIA approved by MONRE on March 6, 2008 2008 EIA update reaccepted as part of Mining License re-approval



World Class Management Team

Professional Management Team With Extensive Regional Experience



Mr. Dominic Heaton Chief Executive Officer

- Australian. Responsible for developing Nui Phao and build Masan Resources into a scale multiasset resource company
- 20+ years of mining experience in Southeast Asia at Placer Pacific, Aurora Gold, Oxiana, OZ Minerals and MMG. General Manager of Sepon, Laos; General Manager of Operations of Martabe, Indonesia

Mr. Vu Hong Deputy Director General

- Vietnamese. Responsible for all C&R Activities. Has been involved in the Project since working with the Project in an advisory capacity while a World Bank professional in 2004.
- 30+ years of experience, including with the World Bank, working mainly in Southeast Asia on Infrastructure and Development Projects

Mr. Dale Smith Construction Director

- Australian. Responsible for managing the EPCM contractors and construction of infrastructure under the scope of the owner's team
- 23+ years of mining experience in Southeast Asia, Australia and South Africa with Newcrest, MMG, Placer Dome. Broad experience across all aspects of minerals projects – Operations, Corporate and Project Management

Mr. Craig Bradshaw Operations Director

- Australian. Responsible for day to day operations
- 15+ years of management experience in Operations, Supply Chain Management, and Finance in Southeast Asia and Australia. Member of Australian Society of CPA's

Mr. Paritosh Gupta CFO

- Indian. Head of Finance and Accounting, seconded from Masan Group
- Involved with the acquisition of Nui Phao and monitoring post acquisition.
- Previously with Lehman Brothers, experience in M&A and capital raising

Mr. Russell Griffin Sales & Marketing Director

- Australian. Head of Sales & Marketing team
- Considerable experience developing markets for new mines and expansions in Australia and Southeast Asia with companies including OZ Minerals.



Financing Secured

Financing to Build Nui Phao Secured



Item	Details
Equity	 In December 2010, Mount Kellett Capital Management invested US\$100 mm in Masan Resources for a 20% stake, towards development of Nui Phao Masan Group has committed US\$25 mm towards the development of the project
VDB Debt Facility	In January 2011, Vietnam Development Bank provided a VND2,377 bn (~US\$115 mm¹) 8-year debt facility
Commercial Bank Debt Facility	 In March 2011, a syndicate of local commercial banks led by Vietcombank provided a US\$90 mm 8-year debt facility
SCB Debt Facility	In March 2012, Standard Chartered Bank provided a US\$80 mm 2-year debt facility

¹ At USD/VND exchange rate of 20,700



Significant Value Enhancement in Nui Phao Since Acquisition

Recent History – Progressing Project Development





July, 2011 Earthworks works commenced **Dec, 2011**Mining contractor appointed, started pre-strip

Mar, 2012 SMP contract awarded. Obtained US\$80 mm loan from Standard Chartered Bank

July 1, 2010
Compensation &
Resettlement (C&R) process
restarted, 3 months ahead of
original schedule

Nov, 2011
Concrete works commenced

September, 2012 E&I contract awarded

Mar 31, 2011 EPSA signed with Jacobs Engineering Group





Construction

Design and Construction Under Way



Item	Current Status
Construction Management	 EPSA signed in March 2011 with Jacobs Engineering Group. Engineering design nearing completion. In July 2011, commenced self managing construction. Earthworks and concrete works were started. Site works are using a number of international and pre-qualified local contractors In Dec 2011, Vietnamese mining contractor was appointed and pre-strip was started In Mar 2012, SMP contract was awarded, in Apr 2012, steel erection was commenced In September 2012 E&I contract was awarded and contractor mobilized
	In September 2012 E&I contract was awarded and contractor mobilized

PROJECT SCHEDULE ¹		2011 2012							2013																		
Item	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	M	Α	М	J	J	Α	S	0	N	D	J	F	M
Detailed Engineering																											
Procurement																											
Processing Plant																											
Utilites and Owners' Scope																											
Mining Facility																											
Tailings																											
Pre-Commissioning																											

¹ High level schedule







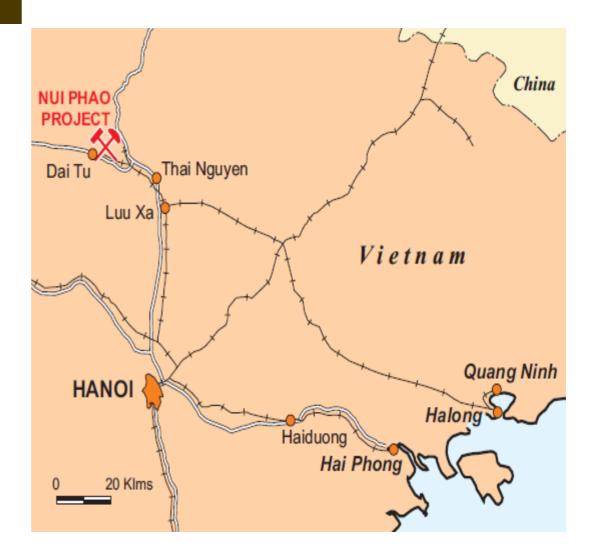
Infrastructure

Good Infrastructure Access



Access to Site

- Road & Rail:
 - Site ~80 km by road from Hanoi
 - Narrow gauge railway connects site to Vietnam Railways system
- Airport and Sea Ports:
 - Site ~50km from Hanoi airport
 - Hai Phong and Quang Ninh ports ~180 240 km from site
- Power:
 - From 110kV line from grid, ~8km from site. Construction power from local 35kV power line
- Water:
 - from Cong River, and bore field
- Community:
 - 98% of land handed over in Sectors 1-5





Production

Mining and Processing



Summary

- Conventional single open pit mine:
 - Nominally 1,600m x 620m x 200m deep
 - Low strip ratio ~1.5:1, waste dumps close to pit
- 3.5 million tpa ore mined and processed:
 - Work Index 12.2kwh/t (moderate)
 - Abrasion Index 0.144 (low to medium)
- Flowsheet development (2003-05):
 - SGS Lakefield (Canada) responsible for all principal metallurgical testwork
 - Flowsheet development a combination of pilot plant scale tests and batch tests
 - Flowsheet validated in 2011/12 at SGS

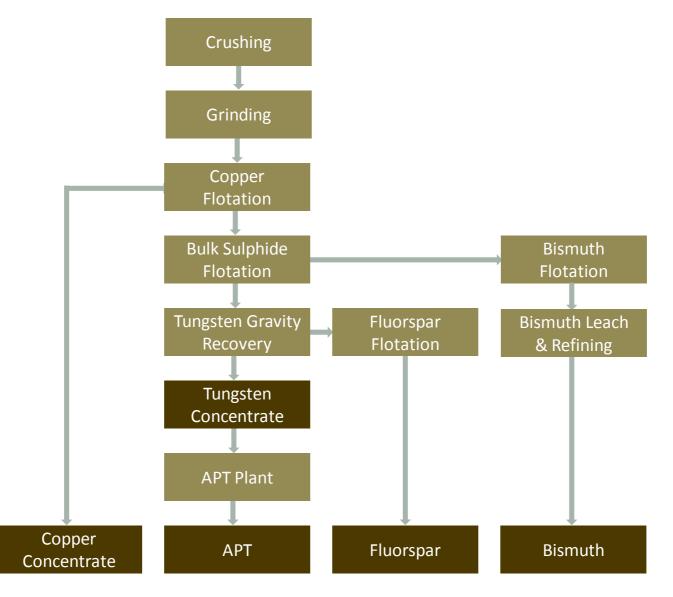




Processing Plant Equipment on Site

Process Flow Diagram¹





¹ Expected process flow, subject to further studies and modifications

Production Statistics



Production Statistics

Item	Average Ore Feed grade	Recovery ¹	Grade ¹	Production (tpa) ²
Ore Throughput	NA	NA	NA	3,500,000
Tungsten (W) ³	0.21%	67.0%	88.5%	4,100
Fluorspar	8.00%	76.5%	97.0%	210,000
Bismuth	0.10%	65.7%	90.0%	2,300
Copper	0.21%	88.4%	27.0%	6,500



¹ Based on metallurgical test work conducted by SGS Lakefield that forms part of the Feasibility Study and internal estimates for APT recovery

Processing Plant Equipment on Site

² Average LOM production, rounded

³to convert to WO₃ divide by 0.793, to convert to APT divide by 0.7042



Offtake Contracts

Offtake Contracts For Fluorspar and Bismuth in Place



Commodity	Details
Tungsten	 Ongoing discussions with potential customers. Many customers are seeking to diversify their sources of supply Seeking a range of customers and exposure to a range of end-use markets
Fluorspar	 Offtake agreement with CMC Cometals (USA) Take or pay agreement for 200,000 mt of fluorspar per year, with floor-price Widespread industry interest in securing non-contracted supply
Bismuth	 Offtake agreement with Sidech (Belgium), part of 5N/MCP Group, the largest processor of bismuth globally Commitment to offtake 2,000 mt of bismuth product per year
Copper	 Evaluating opportunities, small production easily saleable



Community

Social Management Planning Meets Equator Principles



Summary

- Planning based on Equator Principles and is focused on 3 specific areas:
 - Resettlement Action Plan (RAP)
 - Community Development Plan (CDP)
 - Public Consultation and Dissemination Plan (PCDP)
- All 3 plans have been accepted by the Government (2005/2008)



Billboards Inform the Community About the Project and Its Benefits

Resettlement Action Plan – Investing in Our Community



RAP Summary

- The Resettlement Action Plan has been developed with the following objectives in mind:
 - Minimize impact of land acquisition and other socially adverse impacts
 - Ensure that the affected people maintain or improve their economic standards
 - Ensure project benefits are shared with project affect people as well as surrounding communities
- The Plan addresses:
 - Compensation and Resettlement nearing completion
 - Economic Restoration
 - Minority and gender issues



Nam Song Cong Resettlement Site



Mushroom Farming



Environmental Management

Environmental Management As Per International Standards



Summary	
EIA/ESIA	 Environmental Impact Assessments approved by both MONRE and World Bank ESIA 2008 developed to Equator Principles and accepted by previous banking syndicate (Including MIGA 2008) Environmental management to be reviewed annually for compliance by third party groups Commenced development of an ISO 14001 compatible Environment & Safety Management System
Sediment	 High arsenic soil to be separated and encapsulated in designed facilities Control structures constructed to improve water quality through removing sediment and adsorbed metals
Rehabilitation	 Progressive rehabilitation of disturbed areas to minimise overall disturbance footprint Rehabilitation to promote biodiversity subject to studies, discussion, and agreement with DONRE
ARD/Tailings	 Sulphide rich tailings and selected mine waste to be stored under water in a dedicated storage facility Storage and containment facilities to meet national and international design standards
Water	 Manage water quality in area through: Detailed material movement schedules and sediment controls Treatment of wastewater prior to discharge Maintaining a detailed water balance, and water monitoring and treatment program

Nui Phao – Summary



- Long life: 16.5 years known reserves
- Competitive: open cut, low strip ratio
- Diverse: Tungsten, Fluorspar, Bismuth, Copper
- **Well located**; close to infrastructure, supported by Government
- Independent: product sales not locked away or pre-committed
- Funded: Masan Group support and funding
- Experienced: management team
- **Progress**: demonstrated significant construction progress in fourteen months
- On schedule: Commissioning end of Q1 2013



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