

Forging an Iron Ore future

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MINING IN THE PILBARA CONFERENCE - 11 JUNE 2009

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Disclaimer

This presentation contains forward looking statements that are subject to risk factors associated with the exploration and mining industry.

It is believed that the expectations reflected in these statements are reasonable, but they may be affected by a variety of variables which could cause actual results or trends to differ materially.

Exploration Targets

Exploration Targets are partly conceptual and further exploration may or may not define a Mineral Resource.

Competent Person

The information in this report that relates to Exploration Results, Mineral Resources and Ore Reserves is based on information compiled by Dr K J A Wills (who is a Fellow of the Australasian Institute of Mining and Metallurgy) and Mr N Corlis (who is a member of the Australian Institute of Geoscientists). Dr Wills and Mr Corlis are employees of Flinders Mines Limited. Both have sufficient experience that is relevant to the style of mineralisation and types of deposit under consideration and consent to inclusion of the information in this report in the form and context in which it appears. Dr Wills and Mr Corlis qualify as Competent Persons as defined in the 2004 Edition of the "Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves".

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Highlights

100% owned Hamersley Project WA

- Maiden Iron Ore Inferred Resource of Channel Iron Deposit (CID) mineralisation 476 Mt at 55.4% iron (at 50% Fe cut off)
- Includes priority zones totalling 124 Mt at 58.3% iron of Bedded Iron Deposit (BID) and CID mineralisation (at 55% Fe cut off)
- Untested exploration targets totalling 217–265 Mt at 50–65% Fe
- Program of further drilling and economic assessment to be carried out in 2009
- Scoping Study commenced

Capital Structure/Recent Trading

Shares on issue 1,320 million at 3.6.2009

Recent trading (past 3 months)

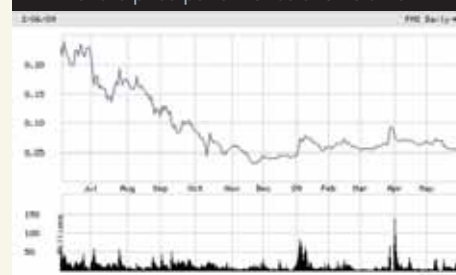
Shares 5.2–9.4 cents
Market capitalisation \$68–124 million

Cash in hand \$15.7 million

Top 5 shareholders at 2.6.09 million

RM Kennedy holdings	27.0
JP Morgan Nominees Aust Ltd	20.7
Citicorp Nominees Pty Ltd	14.4
KJA Wills holdings	11.7
CS Fourth Nominees Pty Ltd	10.9
	(6.4%) 84.7

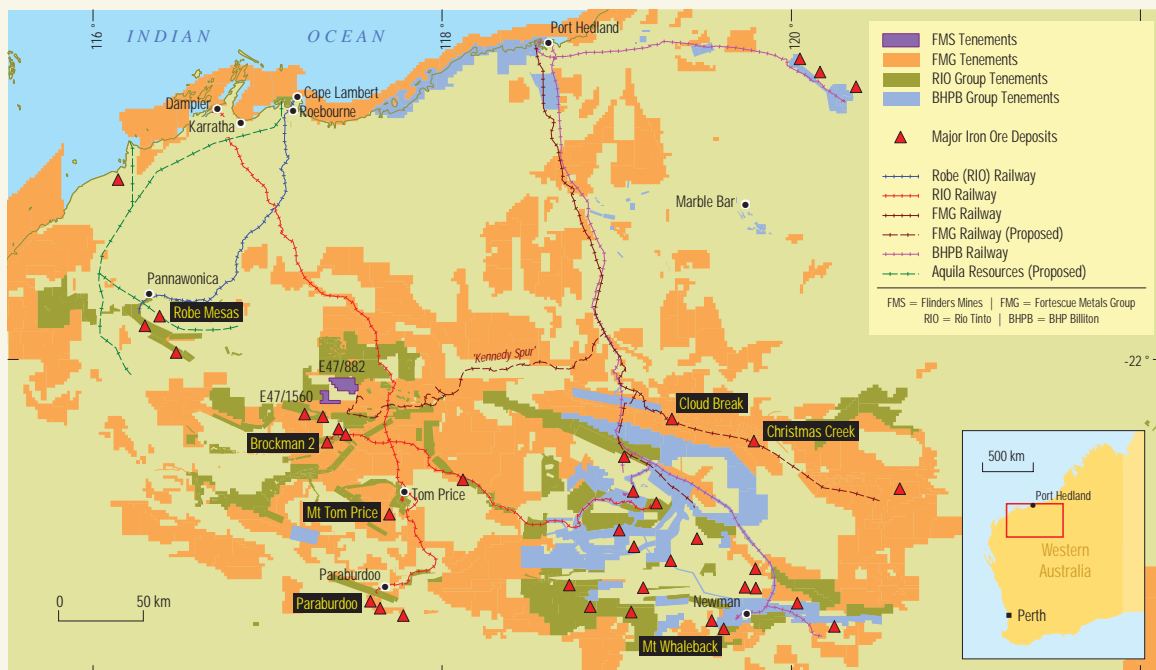
Share price performance and volume



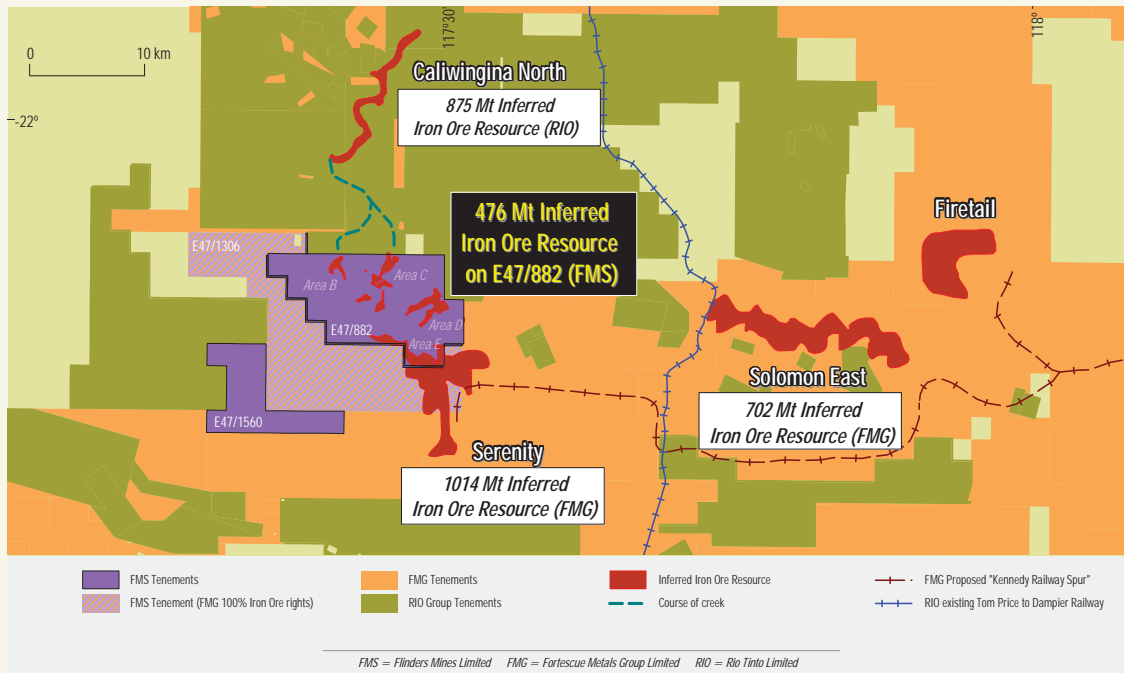
History

- Incorporated January 2000
- ASX listed February 2002
- Prenti JV on Hamersley June 2003
- FMG JV on Hamersley March 2005
- Released news of iron ore Exploration Target of 325 to 390 MT at 45–60% Fe November 2007
- Changed name to Flinders Mines Limited April 2008
- Commenced exploration drilling at Hamersley Project July 2008
- Released maiden Inferred Resource at Hamersley of 476 Mt at 55.4% Fe April 2009
- Purchased 100% of Canegrass magnetite deposit May 2009

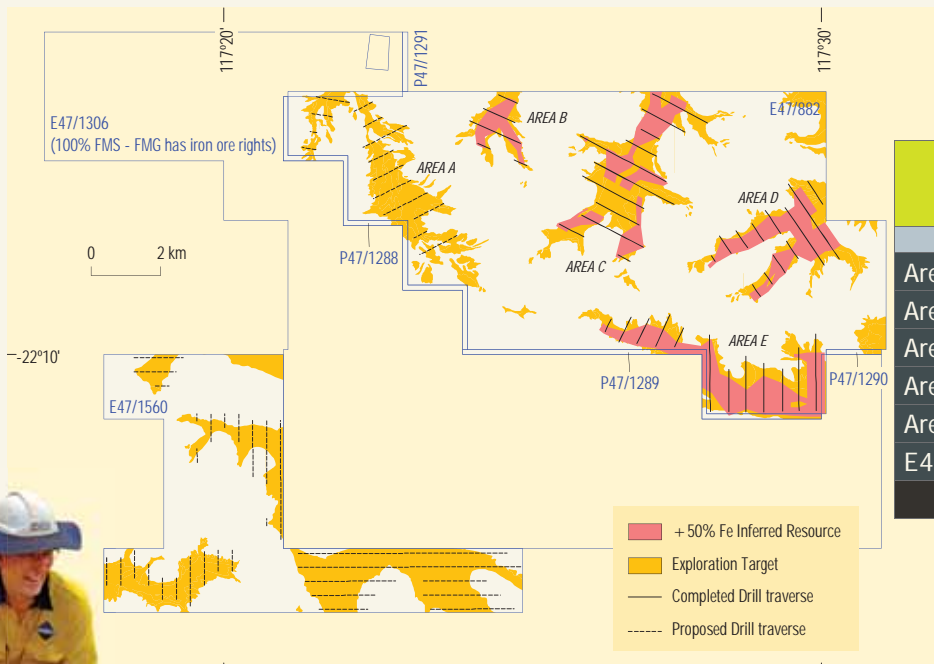
Flinders Mines Iron Ore in the Pilbara



Hamersley Project in detail



Iron Ore Resources and Exploration Targets

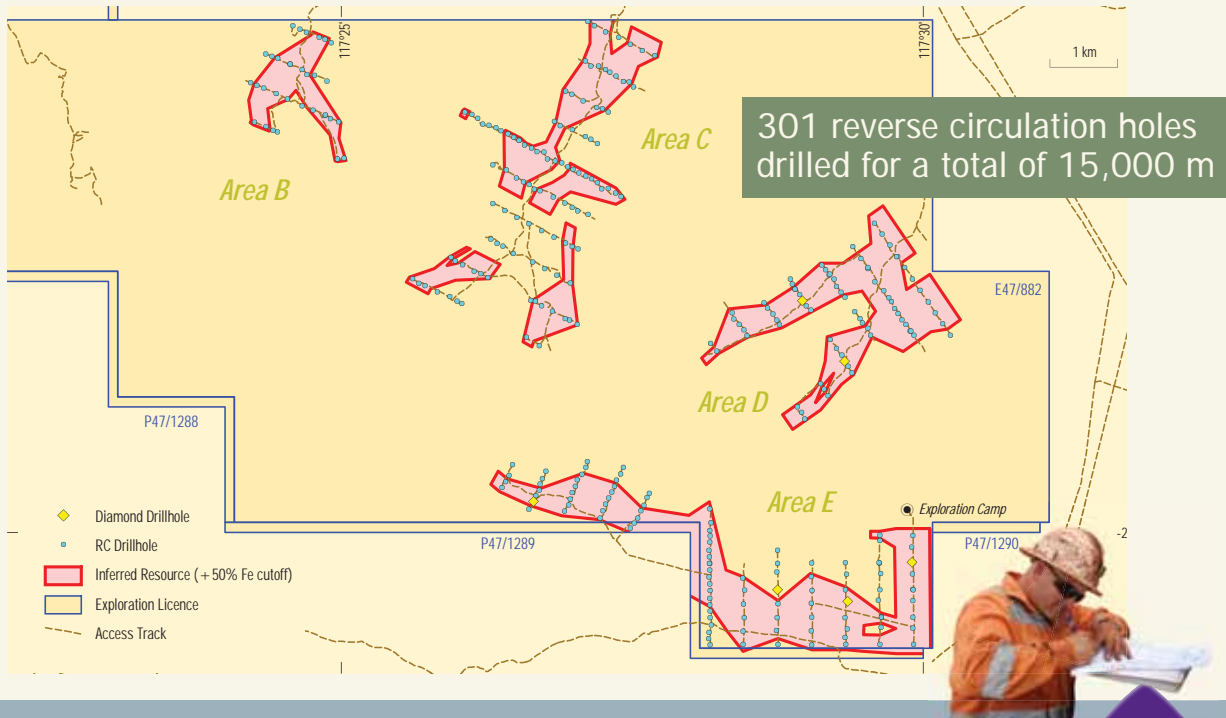


Estimates of tonnages CID and DID (November 2008 estimates)		
AREA	MAX	MIN
Area A	103	96
Area B	40	37
Area C	166	154
Area D	136	126
Area E	170	158
E47/1560	164	121
TOTAL	779	692

*Richard Russell Report
24 November 2008*



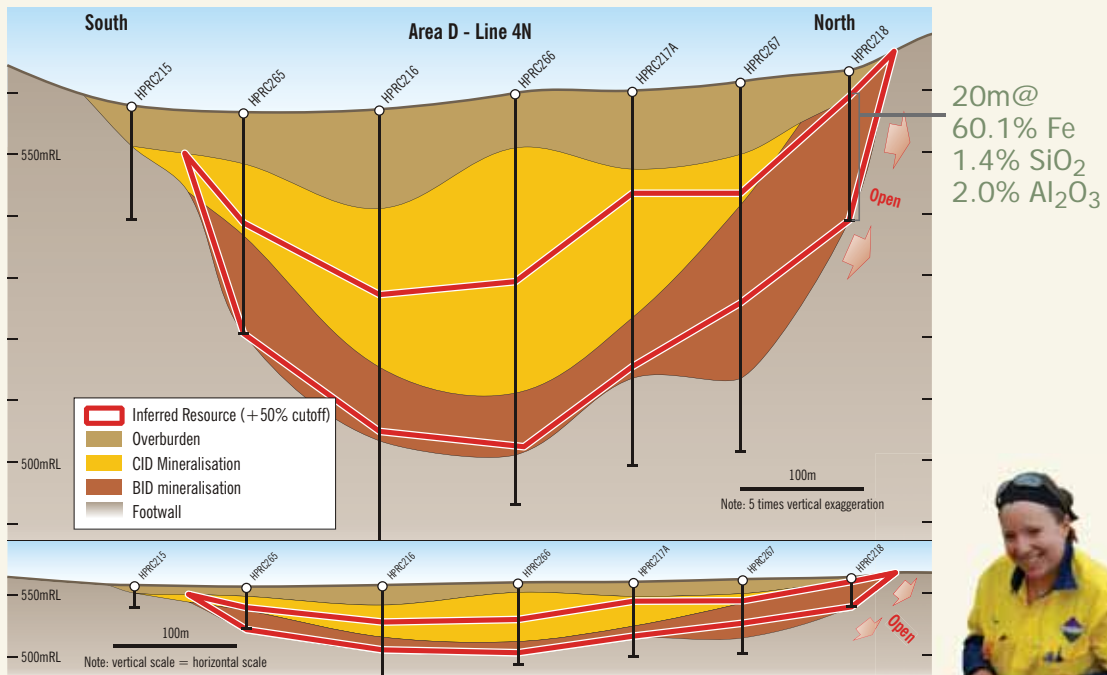
Major drilling program completed in 2008



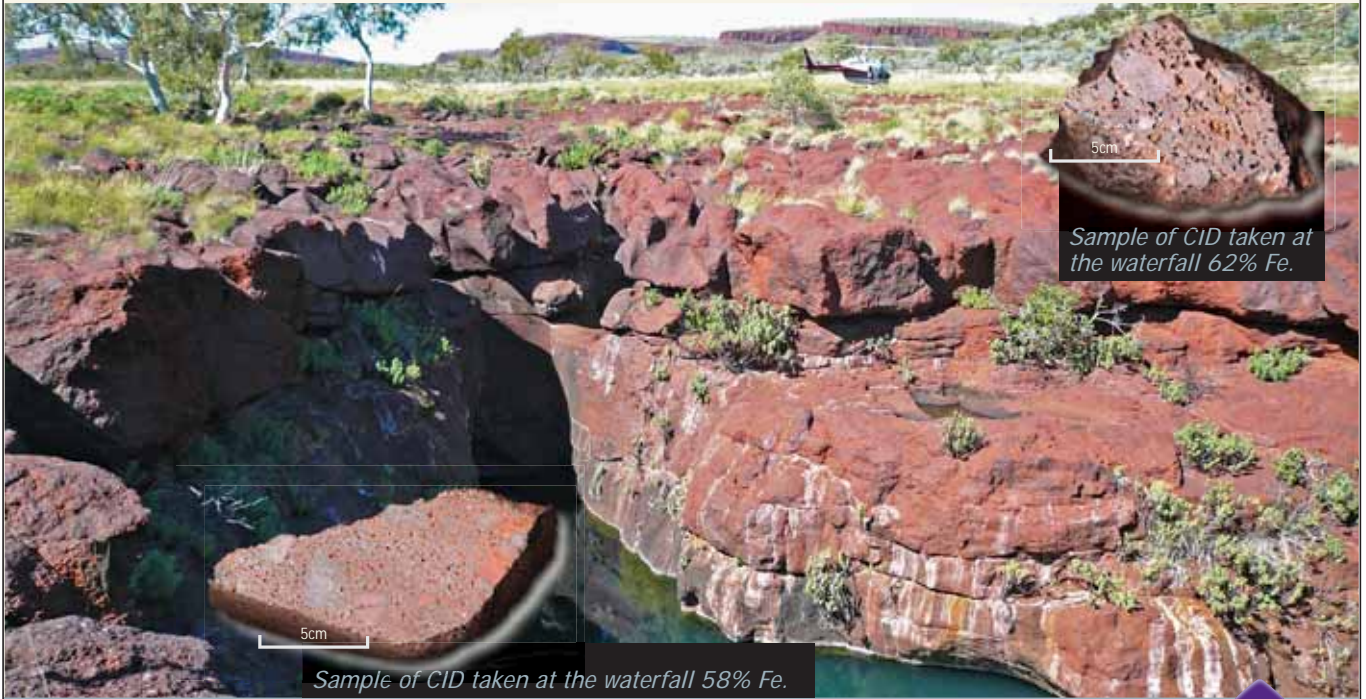
301 reverse circulation holes drilled for a total of 15,000 m



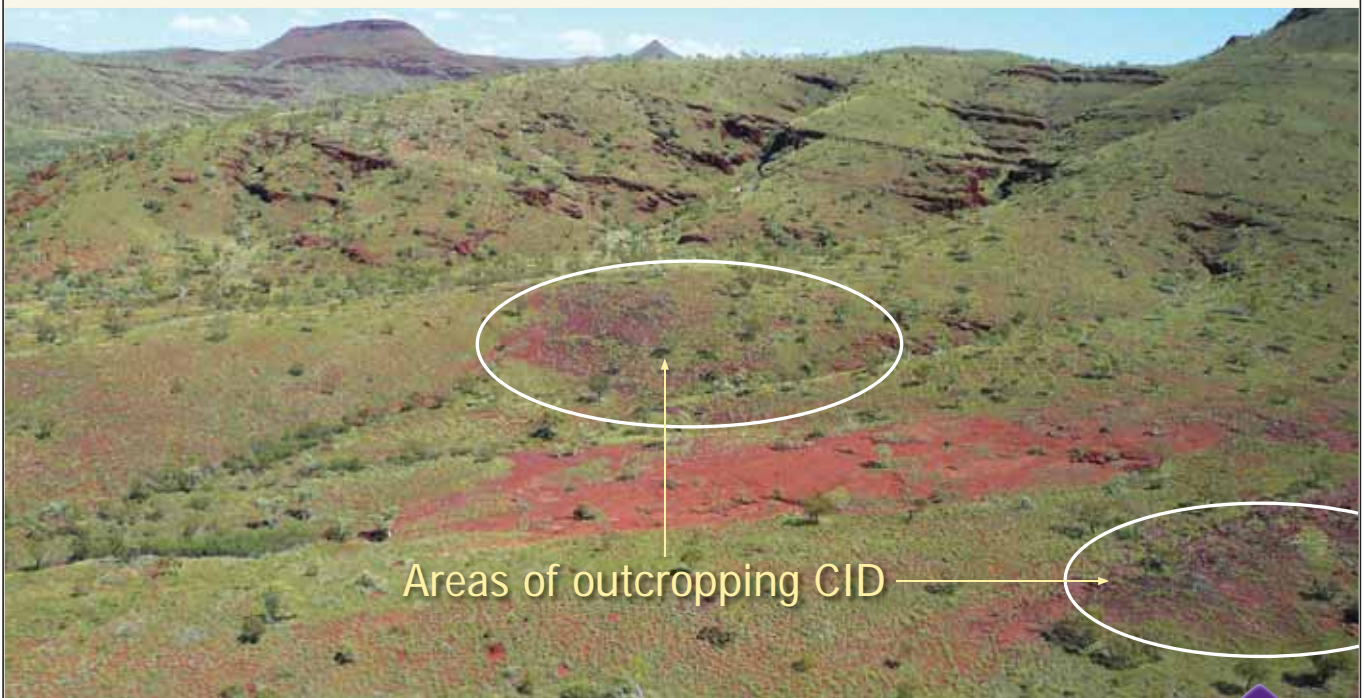
Cross section of Line 4N in Area D



Outcropping CID – Area A



Outcropping CID – Area D



Diamond drill core - key ore types



Maiden Inferred Resource

JORC Classification	Iron Grade Cut-off	Tonnage Mt	CaFe %	Fe %	SiO ₂ %	Al ₂ O ₃ %	P %	LOI %
Inferred	+50%	476	58.7	55.4	9.8	4.6	0.07	5.7
Inferred	+57%	124	61.6	58.3	6.9	3.8	0.08	5.3

The Hamersley Resource Model has been constructed using Ordinary Kriging within geological constraint domains. Drill spacing is 100m to 300m along lines spaced 500m apart. An average density of 2.7 was used for all ore types based on densities measured from diamond core. All material within the resource is classified as Inferred under the JORC Classification.

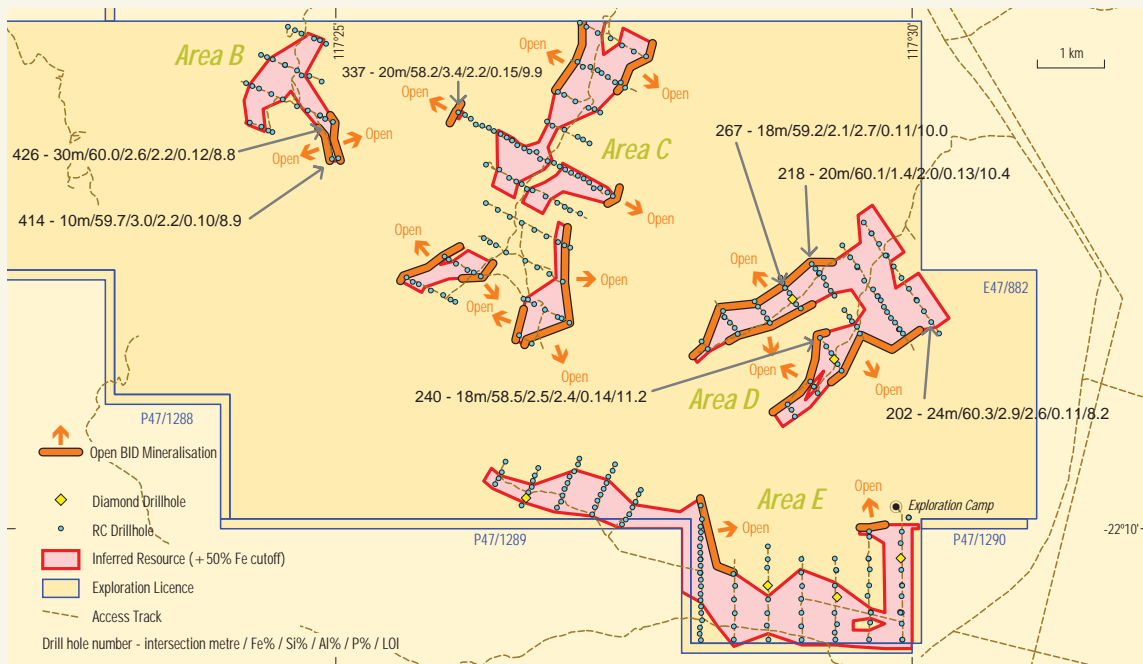
Resource modelling and estimation carried out by external third party consultant Golder & Associates Pty Ltd.

2009 Exploration Target

	Tonnage Mt	FE %
E47/1560 + Area A	217-267	50-65

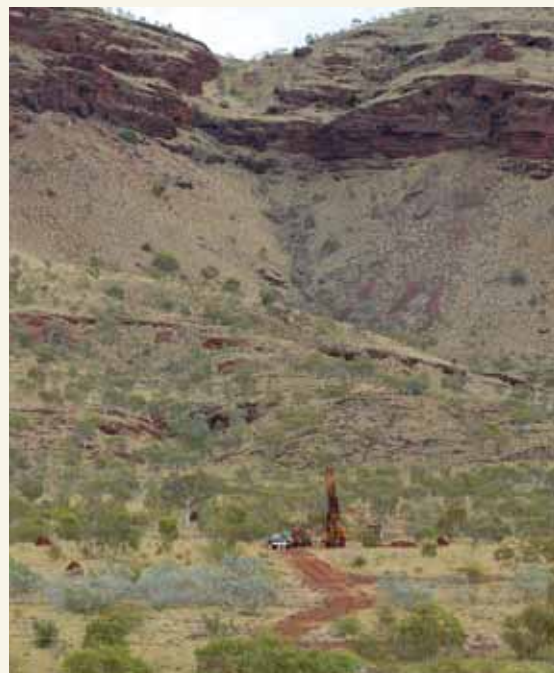


Extension Potential



Where Does This Place FMS?

- Resource size
- Premium ore (BID)
- Upside potential
- Low strip ratio
- Above the water table
- Positive initial beneficiation test work
- Scoping study underway



What Happens Next? - Exploration

	Q1	Q2	Q3	Q4
Approvals				
Drilling				
Global Inferred Resource				
BID Resource (2nd rig)				
Indicated resource				
Updated Resource Model				

What Happens Next? – Feasibility

	Q1	Q2	Q3	Q4
Metallurgy				
Scoping study				
Pre feasibility				

Thank you for your attention

For further information please visit our website at
www.flindersmines.com

