

<u>Competent person</u> : Geologist, Mine Engineer or Geological Engineer with a minimum of 5 years experience which is relevant to the type of deposit under consideration, limestones and dolomites

The CEO should ensure the acceptability of the reserve estimate as a true reflection of all of the relevant factors and would be preferable to the lone signature of the « Competent Person ». CEO approval would also give continuity to the Ore (stone) Reserve estimate which goes beyond the coporate life of a particular individual.

The « Competent Person » would be responsible for design, implementation, and assessment and classification of resources and reserves; and the review, approval, and, where required, the certification of all reports and disclosures related to such programs and estimates.



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Resources	Geological knowledge	Mining plan	Reserves
inferred	insufficient : Global continuity assumed, but not established, based on geological information and isolated drilling/sampling. Semi-quantitative estimation only of volumes, masses and grade/quality Large scale geological map and some outcrops data, few or no drillholes	No local continuity is established No/ - not enough data	not enough data
indicated	<u>minimum</u> : Global continuity estimated in three dimensions, based on a wide, more or less regular sampling network; continuity is measured mainly along drill holes (1D) and assumed between drill holes in the plane of geological/structural continuity. Global estimation involving a relatively high margin of error. Better constraint model (more outcrops and drill holes)	Grade/quality continuity is weak due to wide sampling grid enough to elaborate a first draft of a mining plan	probable
measured	good : Global continuity established in three dimensions (3D) on a close sampling grid and/or mining sampling and larger samples that verify and measure 2D and 3D continuity. Global estimation with a low margin of error. Well constraint geological model, leaving few uncertainties	Grade/quality continuity well to very well established Mining plan fitting the geological model	proved



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Insufficient	Actions	
One of the following affirmations is true :		
The drilling campaign or field work was not	Geological field work, sampling and	
adequately carried out, described, interpreted		
and included in a comprehensive report		
The structure of the deposit is unclear and		
geological uncertainties can have a big impact		
on the reserves	acophysical survey - laboratory	
The distribution and proportion of the different		
type of rocks in the deposit is not known.		
The chemical data are not available, unaccurate		
or uncomplete		
The resource estimate is not constraint and its	Preliminary mining plan	
accuracy is less than 60%		
	Dreenestion	
	Prospection	



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Minimum	Actions	Good
One of the following affirmations is true :		None of the following affirmations is false :
The structure of the deposit is understood, but Complementary drilling campaign		
questions remain (fault traces, thickness of	and field work	The structure of the deposit is well known, as
overburden and karstic features)		well as overburden and karstic features
Lithologies are identified and their distribution in the	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lithologies are identified and their distribution
quarry is approximative		in the quarry is well documented and detailed
The chemical data are enough to give market		The vertical and lateral distribution of the
orientations. The homogeneity of the deposit is not	Advanced mining plan and	quality is specified and selective mining can be
proved and data are lacking for selective mining.	planning	organized.
	P	Accuracy of the resource estimate is more
Accuracy of the resource estimate is more than 60%		than 85%
Perr	mitting procedure	
Projec	t	
		Production
	Vorkshop June 13-16 2006	4



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Reserve - Resource <u>estimate</u>

- A reserve/resource figure results from an <u>estimate</u>, given with an accuracy coefficient. A change in mining plan, geological uncertainties, environmental constraints...can affect significantly the figure
- Reserve/resources figures given with a confidence coefficient ex : 25 Mt + 2.5
- Quality units
- Technical and administrative constraints
- Market constraints
- Available geological data and geological model
- Calculation method
- Yield
- Density
- Losses for pollution, fracturation...
- Verification must be possible