



COMMITTEE FOR MINERAL RESERVES
INTERNATIONAL REPORTING STANDARDS



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The role of the Competent Person

Neil Wells, CRIRSCO Deputy Chair,
Yogyakarta, 31 October 2017



Why are Competent Persons needed for reporting?

Mineral commodities and occurrences are diverse

Copper (*disseminated, massive veins, porphyry, sediment-hosted, skarns*)

Gold (*disseminated, veins*)

Iron Ore (*sediment-hosted, skarns*)

Diamonds (*pipes, alluvial, marine*)

Nickel (*sulphides, laterites*)

Potash (*bedded salts solution mining versus conventional mining*)

Uranium (*hard-rock, sandstone-hosted in situ leach versus conventional mining*)

Lead-Zinc-Silver (*Volcanogenic massive sulphides, carbonate-hosted*)

Specialties (*Lithium, vanadium, rare earths*)

Coal (*structurally disturbed, flat-bedded*)

Industrial minerals

Construction materials (*cement raw materials, aggregates, brick clays*)

Dimension Stones

Is anyone a specialist in all of deposits?

Stages of development need different skills

Exploration

Delineation

Conceptual study

Scoping study

Pre-feasibility study

Feasibility study

Commissioning

Production

Closure

Requiring:

Geological knowledge

Mining expertise

Processing and metallurgical expertise

Legal understanding

Environmental management

Commercial and economic knowledge

Social/cultural awareness

Is anyone responsible for all of these activities?

Different reports have different audiences

Geological reports

Internal project reports

Management planning reports

Investment and strategy reports

State inventory reports

External statements and reports for investors/public

Is anyone writing all of these reports?

Requirements for a Competent Person

A minerals industry professional

Often a geologist or mining engineer

Mineral deposit occurrences and geological environments

Exchanges and sharing of data with other countries

A member of a Recognised Professional Organization (RPO)

Appropriate membership level

Subject to ethics and disciplinary codes

Minimum five years relevant experience

Style of mineralization

Type of deposit

Activity or area of technical input which that person is undertaking

"Competent Persons should be clearly satisfied in their own minds that they could face their peers and demonstrate competence in the commodity, type of deposit and situation under consideration. If doubt exists, the person should either seek opinions from appropriately experienced colleagues or should decline to act as a Competent Person."

Note: These requirements are also subject to any additional restrictions or conditions which may be required by relevant stock exchanges or regulatory authorities.

What are the responsibilities of a Competent Person?

Preparing Competent Persons Reports

- Issued by owners of mineral assets
- Provide information on Exploration Results, Mineral Resources & Mineral Reserves
- Reports are any public announcement that includes or relies on this information
- Reports are prepared at different stages of project development and operation

Exercising judgement in providing external information

- Ensuring that information available is properly considered and reasonable conclusions are drawn, supported by objective views

Upholding the principles of transparency, materiality, and competence

- The core principles inherent in the CRIRSCO aligned standards

Enabling balanced and reasoned investment decisions

- Information is provided to enable investors and/or professional advisors to make informed decisions

Reporting

Primary responsibility

- May be annual, or for specific purpose
- Include 'first time' reporting, bond issues, results updates, divestments, privatization, press releases, etc.
- Exploration geologists report exploration results
- Mining (or estimation) geologists estimate and report mineral resources
- Mining engineers estimate and report mineral/ore reserves

Leading a team

Co-ordinating other specialists

- Can include other Competent Persons
- Oversees and directs work on those not Competent Persons in their own right
- Could include metallurgists, environmental engineers, economists, marketing experts, etc.
- Responsibility for the work included in reports done by others

Organizing audits and reviews

Consideration of all matters in reports

- Legacy information
- Geological confidence
- Modifying factors

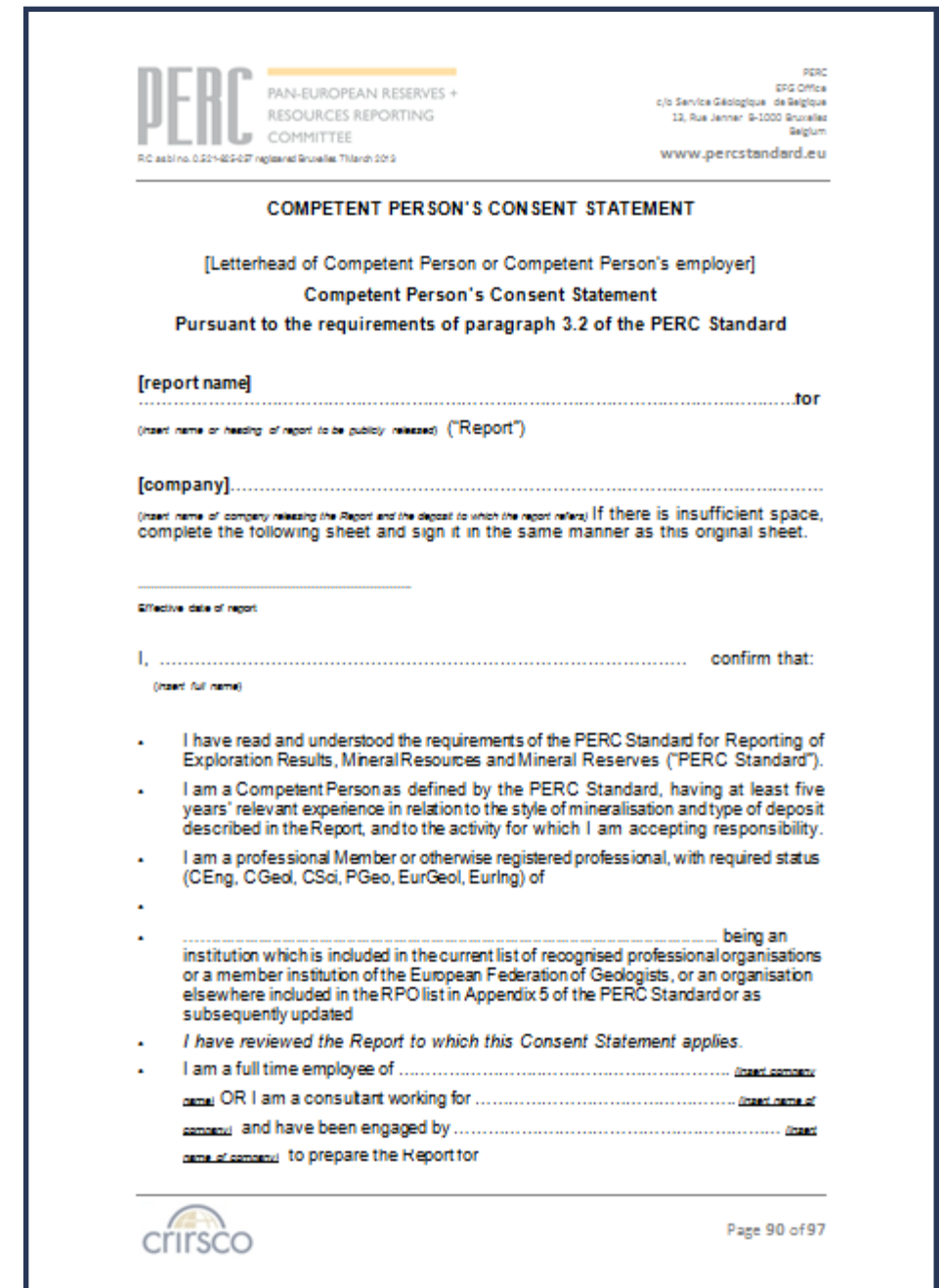
The Competent Person Consent

Necessary for all reports released

Confirms the name of the Competent Person, professional qualifications, and experience relevant to the report

Can be a stand-alone statement

Can be included as a compliance statement in the report



PERC PAN-EUROPEAN RESERVES + RESOURCES REPORTING COMMITTEE
RC asbl no. 0251402407 registered Brussels 13/03/2013

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COMPETENT PERSON'S CONSENT STATEMENT

[Letterhead of Competent Person or Competent Person's employer]
Competent Person's Consent Statement
 Pursuant to the requirements of paragraph 3.2 of the PERC Standard


[report name]for
(insert name or heading of report to be publicly released) ("Report")

[company]
(insert name of company releasing the Report and the deposit to which the report refers) If there is insufficient space, complete the following sheet and sign it in the same manner as this original sheet.

Effective date of report: _____

I, confirm that:
(insert full name)

- I have read and understood the requirements of the PERC Standard for Reporting of Exploration Results, Mineral Resources and Mineral Reserves ("PERC Standard").
- I am a Competent Person as defined by the PERC Standard, having at least five years' relevant experience in relation to the style of mineralisation and type of deposit described in the Report, and to the activity for which I am accepting responsibility.
- I am a professional Member or otherwise registered professional, with required status (CEng, CGeol, CSci, PGeo, EurGeol, Eurlng) of
- _____ being an institution which is included in the current list of recognised professional organisations or a member institution of the European Federation of Geologists, or an organisation elsewhere included in the RPO list in Appendix 5 of the PERC Standard or as subsequently updated
- I have reviewed the Report to which this Consent Statement applies.
- I am a full time employee of (insert company name) OR I am a consultant working for (insert name of company) and have been engaged by (insert name of company) to prepare the Report for

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