

NATIONAL INSTRUMENT 51-101
STANDARDS OF DISCLOSURE
FOR OIL AND GAS ACTIVITIES

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NATIONAL INSTRUMENT 51-101
STANDARDS OF DISCLOSURE
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PART 1 APPLICATION AND TERMINOLOGY¹

1.1 Definitions² - In this *Instrument*:

- (a) "annual information form" has the same meaning as "AIF" in National Instrument 51-102 *Continuous Disclosure Obligations*; NI 51-102;

as amended December 30, 2005

(a.1) "analogous information" means information about an area outside the area in which the reporting issuer has an interest or intends to acquire an interest, which is referenced by the reporting issuer for the purpose, in the opinion of a reasonable person, of drawing a comparison or conclusion to an area in which the reporting issuer has an interest or intends to acquire an interest and may include:

(i) historic information concerning reserves;

(ii) estimates of the volume or value of reserves;

(iii) historic information concerning resources;

(iv) estimates of the volume or value of resources;

(v) historic production amounts;

(vi) production estimates; or

(vii) information concerning a field, well, basin or reservoir;

(a.2) "anticipated results" means information that may, in the opinion of a reasonable person, indicate the potential value or quantities of resources in respect of the reporting issuer's resources or a portion of its resources, which may include:

¹ For the convenience of readers, Appendix 1 to Companion Policy 51-101CP sets out the meanings of terms, including those defined in this Part, that are printed in italics in this *Instrument*, *Form 51-101F1*, *Form 51-101F2*, *Form 51-101F3* or the Companion Policy.

² A national definition instrument has been adopted as *NI 14-101*. It contains definitions of certain terms used in more than one national or multilateral instrument. *NI 14-101* provides that a term used in a national or multilateral instrument and defined in the statute relating to securities of the applicable *jurisdiction*, the definition of which is not restricted to a specific portion of the statute, will have the meaning given to it in that statute unless the context otherwise requires. *NI 14-101* also provides that a provision or a reference within a provision of a national or multilateral instrument that specifically refers by name to a jurisdiction other than the local jurisdiction shall not have any effect in the local jurisdiction, unless otherwise stated in that national or multilateral instrument.

(i) an estimate of volume;

(ii) an estimate of value;

(iii) areal extent;

(iv) anticipated pay thickness;

(v) flow rates; or

(vi) hydrocarbon content;

- (b) "BOEs" means barrels of *oil* equivalent;
- (c) "CICA" means The Canadian Institute of Chartered Accountants;
- (d) "*CICA Accounting Guideline 516*" means Accounting Guideline AcG-5 "Full cost 16 "Oil and gas accounting in the oil and gas industry- full cost" included in the *CICA Handbook*, as amended from time to time;
- (e) "*CICA Handbook*" means the Handbook of the *CICA*, as amended from time to time;
- (f) "*COGE Handbook*" means the "Canadian Oil and Gas Evaluation Handbook" prepared jointly by The Society of Petroleum Evaluation Engineers (Calgary Chapter) and the Canadian Institute of Mining, Metallurgy & Petroleum (Petroleum Society), as amended from time to time;
- (g) ~~"constant prices and costs"~~ means the prices and costs used in an estimate that are: repealed;
 - ~~(i) the reporting issuer's prices and costs as at the effective date of the estimation, held constant throughout the estimated lives of the properties to which the estimate applies;~~
 - ~~(ii) if, and only to the extent that, there are fixed or presently determinable future prices or costs to which the reporting issuer is legally bound by a contractual or other obligation to supply a physical product, including those for an extension period of a contract that is likely to be extended, those prices or costs rather than the prices and costs referred to in subparagraph (i);~~
- (h) "*effective date*", in respect of information, means the date as at which, or for the period ended on which, the information is provided;
- (i) "*FAS 19*" means United States Financial Accounting Standards Board Statement of Financial Accounting Standards No. 19 "Financial Accounting and Reporting by Oil and Gas Producing Companies", as amended from time to time;
- (j) "*forecast prices and costs*" means future prices and costs that are:

- (i) generally accepted as being a reasonable outlook of the future;
- (ii) if, and only to the extent that, there are fixed or presently determinable future prices or costs to which the *reporting issuer* is legally bound by a contractual or other obligation to supply a physical product, including those for an extension period of a contract that is likely to be extended, those prices or costs rather than the prices and costs referred to in subparagraph (i);
- (k) "*foreign geographic area*" means a geographic area outside North America within one country or including all or portions of a number of countries;
- (l) "*Form 51-101F1*" means Form 51-101F1 *Statement of Reserves Data and Other Oil and Gas Information*;
- (m) "*Form 51-101F2*" means Form 51-101F2 *Report on Reserves Data by Independent Qualified Reserves Evaluator or Auditor*;
- (n) "*Form 51-101F3*" means Form 51-101F3 *Report of Management and Directors on Oil and Gas Disclosure*;
- (o) "*independent*", in respect of the relationship between a *reporting issuer* and a *qualified reserves evaluator or auditor*, has the meaning set out in the *COGE Handbook*; **person or company, means a relationship between the reporting issuer and that person or company in which there is no circumstance that could, in the opinion of a reasonable person aware of all relevant facts, interfere with that person's or company's exercise of judgment regarding the preparation of information which is used by the reporting issuer;**
- (p) "*McfGEs*" means thousand cubic feet of *gas* equivalent;
- (q) "*NI 14-101*" means National Instrument 14-101 *Definitions*;
- (r) ~~repealed December 30, 2005; ;~~
- (r.1) "*NI 51-102*" means National Instrument 51-102 *Continuous Disclosure Obligations*;**
- (s) "*oil and gas activities*"
 - (i) include:
 - (A) the search for *crude oil* or *natural gas* in their natural states and original locations;
 - (B) the acquisition of property rights or *properties* for the purpose of further exploring for or removing *oil* or *gas* from *reservoirs* on those *properties*;
 - (C) the construction, drilling and *production* activities necessary to retrieve *oil* and *gas* from their natural *reservoirs*, and the

acquisition, construction, installation and maintenance of *field* gathering and storage systems including lifting the *oil* and *gas* to the surface and gathering, treating, *field* processing and *field* storage; and

- (D) the extraction of hydrocarbons from oil sands, shale, coal or other non-conventional sources and activities similar to those referred to in clauses (A), (B) and (C) undertaken with a view to such extraction; but
- (ii) do not include:
- (A) transporting, refining or marketing *oil* or *gas*;
 - (B) activities relating to the extraction of natural resources other than *oil* and *gas* and their by-products; or
 - (C) the extraction of geothermal steam or of hydrocarbons as a by-product of the extraction of geothermal steam or associated geothermal resources;
- (t) "*preparation date*", in respect of written disclosure, means the most recent date to which information relating to the period ending on the *effective date* was considered in the preparation of the disclosure;
- (u) "*production group*" means one of the following together, in each case, with associated by-products:
- (i) light and medium *crude oil* (combined);
 - (ii) *heavy oil*;
 - (iii) *associated gas* and *non-associated gas* (combined); and
 - (iv) *bitumen*, *synthetic oil* or other products from non-conventional *oil and gas activities*.
- (v) "*product type*" means one of the following:
- (i) in respect of conventional *oil and gas activities*:
 - (A) light and medium *crude oil* (combined);
 - (B) *heavy oil*;
 - (C) *natural gas* excluding *natural gas liquids*; or
 - (D) *natural gas liquids*; and
 - (ii) in respect of non-conventional *oil and gas activities*:

- (A) *synthetic oil*;
 - (B) *bitumen*;
 - (C) coal bed methane; ~~or~~
 - (D) hydrates; ~~and~~
 - (E) shale oil; or**
 - (F) shale gas;**
- (w) "*professional organization*" means a self-regulatory organization of engineers, geologists, other geoscientists or other professionals whose professional practice includes *reserves evaluations* or *reserves audits*, that:
- (i) admits members primarily on the basis of their educational qualifications;
 - (ii) requires its members to comply with the professional standards of competence and ethics prescribed by the organization that are relevant to the estimation, *evaluation*, *review* or *audit* of *reserves data*;
 - (iii) has disciplinary powers, including the power to suspend or expel a member; and
 - (iv) is either:
 - (A) given authority or recognition by statute in a Canadian jurisdiction; or
 - (B) accepted for this purpose by the *securities regulatory authority* or the *regulator*;
- (x) "*qualified reserves auditor*" means an individual who:
- (i) in respect of particular *reserves data*, **resources** or related information, possesses professional qualifications and experience appropriate for the estimation, *evaluation*, *review* and *audit* of the *reserves data*, **resources** and related information; and
 - (ii) is a member in good standing of a *professional organization*;
- (y) "*qualified reserves evaluator*" means an individual who:
- (i) in respect of particular *reserves data*, **resources** or related information, possesses professional qualifications and experience appropriate for the estimation, *evaluation* and *review* of the *reserves data*, **resources** and related information; and
 - (ii) is a member in good standing of a *professional organization*;

(z) "*qualified reserves evaluator or auditor*" means a *qualified reserves auditor* or a *qualified reserves evaluator*;

~~(aa) "*reserves data*" means the following estimates, as at the last day of the *reporting issuer's* most recent financial year:~~

~~(i) *proved reserves and related future net revenue* estimated:~~

~~(A) using *constant prices and costs* as at the last day of that financial year; and~~

~~(B) using *forecast prices and costs*; and~~

(z.1) "*reserves*" means *proved, probable or possible reserves*;

(aa) (ii) "*reserves data*" means an estimate of *proved reserves and probable reserves* and related *future net revenue*, estimated using *forecast prices and costs*; and

(bb) "*supporting filing*" means a document filed by a *reporting issuer* with a *securities regulatory authority*.

1.2 **COGE Handbook Definitions**

(1) Terms used in this *Instrument* but not defined in this *Instrument, NI 14-101* or the securities statute in the *jurisdiction*, and defined or interpreted in the *COGE Handbook*, have the meaning or interpretation ascribed to those terms in the *COGE Handbook*.

(2) In the event of a conflict or inconsistency between the definition of a term in this *Instrument, NI 14-101* or the securities statute in the *jurisdiction* and the meaning ascribed to the term in the *COGE Handbook*, the definition in this *Instrument, NI 14-101* or the securities statute in the *jurisdiction*, as the case may be, ~~shall~~**will** apply.

1.3 Applies to Reporting Issuers Only - This *Instrument* applies only to *reporting issuers* engaged, directly or indirectly, in *oil and gas activities*.

1.4 **Materiality Standard**

(1) This *Instrument* applies only in respect of information that is *material* in respect of a *reporting issuer*.

(2) For the purpose of subsection (1), information is *material* in respect of a *reporting issuer* if it would be likely to influence a decision by a reasonable investor to buy, hold or sell a security of the *reporting issuer*.

PART 2 ANNUAL FILING REQUIREMENTS

2.1 Reserves Data and Other Oil and Gas Information - A reporting issuer ~~shall~~**must**, not later than the date on which it is required by *securities legislation* to file audited financial statements for its most recent financial year, file with the *securities regulatory authority* the following:

1. **Statement of Reserves Data and Other Information** - a statement of the *reserves data* and other information specified in *Form 51-101F1*, as at the last day of the *reporting issuer's* most recent financial year and for the financial year then ended;
2. **Report of Independent Qualified Reserves Evaluator or Auditor** - a report in accordance with *Form 51-101F2* that is:
 - (a) included in, or filed concurrently with, the document filed under item 1; and
 - (b) executed by one or more *qualified reserves evaluators or auditors* each of whom is *independent* of the *reporting issuer*, who ~~shall~~**must** in the aggregate have:
 - (i) *evaluated* or audited at least 75 percent of the *future net revenue* (calculated using a discount rate of 10 percent) attributable to *proved plus probable reserves*, as reported in the statement filed or to be filed under item 1; and
 - (ii) *reviewed* the balance of such *future net revenue*; and
3. **Report of Management and Directors** – a report in accordance with *Form 51-101F3* that
 - (a) refers to the information filed or to be filed under items 1 and 2;
 - (b) confirms the responsibility of management of the *reporting issuer* for the content and filing of the statement referred to in item 1 and for the filing of the report referred to in item 2;
 - (c) confirms the role of the board of directors in connection with the information referred to in paragraph (b);
 - (d) is contained in, or filed concurrently with, the statement filed under item 1; and
 - (e) is executed by two senior officers and two directors of the *reporting issuer*.

as amended September 19, 2005

2.2 News Release Notice to Announce Filing - A reporting issuer ~~shall~~**must**, concurrently with filing a statement and reports under section 2.1, disseminate a news release ~~and file~~

with the securities regulatory authority a notice announcing that filing and indicating where a copy of the filed information can be found for viewing by electronic means.

2.3 Inclusion in Annual Information Form - The requirements of section 2.1 may be satisfied by including the information specified in section 2.1 in an *annual information form* filed within the time specified in section 2.1.

2.4 Reservation in Report of Qualified Reserves Evaluator or Auditor

(1) If a *qualified reserves evaluator or auditor* cannot report on *reserves data* without *reservation*, the *reporting issuer* shall**must** ensure that the report of the *qualified reserves evaluator or auditor* prepared for the purpose of item 2 of section 2.1 sets out the cause of the *reservation* and the effect, if known to the *qualified reserves evaluator or auditor*, on the *reserves data*.

(2) A report containing a *reservation*, the cause of which can be removed by the *reporting issuer*, does not satisfy the requirements of item 2 of section 2.1.

PART 3 RESPONSIBILITIES OF REPORTING ISSUERS AND DIRECTORS

3.1 Interpretation - A reference to a board of directors in this Part means, for a *reporting issuer* that does not have a board of directors, those individuals whose authority and duties in respect of that *reporting issuer* are similar to those of a board of directors.

3.2 Reporting Issuer to Appoint Independent Qualified Reserves Evaluator or Auditor - A *reporting issuer* shall**must** appoint one or more *qualified reserves evaluators or auditors*, each of whom is *independent* of the *reporting issuer*, to report to the board of directors of the *reporting issuer* on its *reserves data*.

3.3 Reporting Issuer to Make Information Available to Qualified Reserves Evaluator or Auditor - A *reporting issuer* shall**must** make available to the *qualified reserves evaluators or auditors* that it appoints under section 3.2 all information reasonably necessary to enable the *qualified reserves evaluators or auditors* to provide a report that will satisfy the applicable requirements of this Instrument.

3.4 Certain Responsibilities of Board of Directors - The board of directors of a *reporting issuer* shall**must**

(a) review, with reasonable frequency, the *reporting issuer's* procedures relating to the disclosure of information with respect to *oil and gas activities*, including its procedures for complying with the disclosure requirements and restrictions of this *Instrument*;

(b) review each appointment under section 3.2 and, in the case of any proposed change in such appointment, determine the reasons for the proposal and whether there have been disputes between the appointed *qualified reserves evaluator or auditor* and management of the *reporting issuer*;

- (c) review, with reasonable frequency, the *reporting issuer's* procedures for providing information to the *qualified reserves evaluators or auditors* who report on *reserves data* for the purposes of this *Instrument*;
- (d) before approving the filing of *reserves data* and the report of the *qualified reserves evaluators or auditors* thereon referred to in section 2.1, meet with management and each *qualified reserves evaluator or auditor* appointed under section 3.2, to
 - (i) determine whether any restrictions affect the ability of the *qualified reserves evaluator or auditor* to report on *reserves data* without reservation; and
 - (ii) review the *reserves data* and the report of the *qualified reserves evaluator or auditor* thereon; and
- (e) review and approve
 - (i) the content and filing, under section 2.1, of the statement referred to in item 1 of section 2.1;
 - (ii) the filing, under section 2.1, of the report referred to in item 2 of section 2.1; and
 - (iii) the content and filing, under section 2.1, of the report referred to in item 3 of section 2.1.

3.5 Reserves Committee

- (1) The board of directors of a *reporting issuer* may, subject to subsection (2), delegate the responsibilities set out in section 3.4 to a committee of the board of directors, provided that a majority of the members of the committee
 - (a) are individuals who are not and have not been, during the preceding 12 months:
 - (i) an officer or employee of the *reporting issuer* or of an affiliate of the *reporting issuer*;
 - (ii) a person who beneficially owns 10 percent or more of the outstanding voting securities of the *reporting issuer*; or
 - (iii) a relative of a person referred to in subparagraph (a)(i) or (ii), residing in the same home as that person; and
 - (b) are free from any business or other relationship which could reasonably be seen to interfere with the exercise of their independent judgement.
- (2) Despite subsection (1), a board of directors of a *reporting issuer* ~~shall~~**must** not delegate its responsibility under paragraph 3.4(e) to approve the content or the filing of information.

- (3) A board of directors that has delegated responsibility to a committee pursuant to subsection (1) ~~shall~~**must** solicit the recommendation of that committee as to whether to approve the content and filing of information for the purpose of paragraph 3.4(e).

3.6 ~~repealed-September 19, 2005-~~

PART 4 MEASUREMENT

4.1 Accounting Methods - A reporting issuer engaged in oil and gas activities that discloses financial statements prepared in accordance with *Canadian GAAP* ~~shall~~**must** use

- (a) the full cost method of accounting, applying *CICA Accounting Guideline 516*; or
- (b) the successful efforts method of accounting, applying *FAS 19*.

~~4.2 Requirements for Disclosed Reserves Data~~

~~(1) A reporting issuer shall ensure that estimates of reserves or future net revenue contained in a document filed with the securities regulatory authority under this Instrument satisfy the following requirements:~~

- ~~(a) the estimates shall be~~
- ~~(i) prepared or audited by a qualified reserves evaluator or auditor;~~
- ~~(ii) prepared or audited in accordance with the COGE Handbook; and~~
- ~~(iii) estimated assuming that development of each property in respect of which the estimate is made will occur, without regard to the likely availability to the reporting issuer of funding required for that development;~~
- ~~(b) for the purpose of determining whether reserves should be attributed to a particular undrilled property, reasonably estimated future abandonment and reclamation costs related to the property shall be taken into account; and~~
- ~~(c) aggregate future net revenue shall be estimated deducting~~
- ~~(i) reasonably estimated future well abandonment costs; and~~
- ~~(ii) future income tax expenses (unless otherwise specified in this Instrument, Form 51-101F1 or Form 51-101F2).~~

4.2 ~~(2)~~ **Consistency in Dates** - The date or period with respect to which the effects of an event or transaction are recorded in a reporting issuer's annual financial statements

~~shall~~**must** be the same as the date or period with respect to which they are first reflected in the *reporting issuer's* annual *reserves data* disclosure under Part 2.

PART 5 REQUIREMENTS APPLICABLE TO ALL DISCLOSURE

5.1 Application of Part 5 - This Part applies to disclosure made by or on behalf of a *reporting issuer*

- (a) to the public;
- (b) in any document filed with a *securities regulatory authority*; or
- (c) in other circumstances in which, at the time of making the disclosure, the *reporting issuer* knows, or ought reasonably to know, that the disclosure is or will become available to the public.

5.2 Consistency with Disclosure of Reserves Data and Other Information - If a *reporting issuer* makes disclosure of reserves or other information of a type that is ~~required to be~~ included in a statement filed with a *securities regulatory authority* under item 1 of section 2.1, the information shall be specified in Form 51-101F1, the reporting issuer must ensure that the disclosure satisfies the following requirements:

- (a) ~~prepared in accordance with Part 4; and~~ estimates of reserves or future net revenue must
 - (i) disclose the effective date of the estimate;
 - (ii) have been prepared or audited by a qualified reserves evaluator or auditor;
 - (iii) have been prepared or audited in accordance with the COGE Handbook;
 - (iv) have been estimated assuming that development of each property in respect of which the estimate is made will occur, without regard to the likely availability to the reporting issuer of funding required for that development; and
 - (v) in the case of estimates of possible reserves or related future net revenue disclosed in writing, also include cautionary language proximate to the estimate to the following effect:

“Possible reserves are those additional reserves that are less certain to be recovered than probable reserves. There is only a 10% probability that the quantities actually recovered will equal or exceed the sum of proved plus probable plus possible reserves.”;
- (b) for the purpose of determining whether reserves should be attributed to a particular undrilled property, reasonably estimated future

abandonment and reclamation costs related to the property must have been taken into account;

(c) in disclosing aggregate future net revenue it must comply with the requirements for the determination of future net revenue specified in Form 51-101F1; and

(d) ~~(b) the disclosure must be~~ consistent with the corresponding information, if any, contained in the statement most recently filed by the *reporting issuer* with the *securities regulatory authority* under item 1 of section 2.1, except to the extent that such statement has been supplemented or superseded by a report of a material change³ filed by the *reporting issuer* with the *securities regulatory authority*.

5.3 Reserves and Resources Classification - Disclosure of *reserves* or *resources* ~~shall be consistent with~~ **must apply** the *reserves* and *resources* terminology and categories set out in the *COGE Handbook* **and must relate to the most specific category of reserves or resources in which the reserves or resources can be classified.**

5.4 Oil and Gas Reserves and Sales - Disclosure of *reserves* or of sales of *oil*, *gas* or associated by-products ~~shall~~ **must** be made only in respect of *marketable* quantities, reflecting **the quantities and** prices for the product in the condition (upgraded or not upgraded, processed or unprocessed) in which it is to be, or was, sold.

5.5 Natural Gas By-Products - Disclosure concerning *natural gas* by-products (including *natural gas liquids* and sulphur) ~~shall~~ **must** be made in respect only of volumes that have been or are to be recovered prior to the point at which *marketable gas* is measured.

5.6 Future Net Revenue Not Fair Market Value - Disclosure of an estimate of *future net revenue*, whether calculated without discount or using a discount rate, ~~shall~~ **must** include a statement to the effect that the estimated values disclosed do not represent fair market value.

5.7 Consent of Qualified Reserves Evaluator or Auditor

(1) A *reporting issuer* ~~shall~~ **must** not disclose a report referred to in item 2 of section 2.1 that has been delivered to the board of directors of the *reporting issuer* by a *qualified reserves evaluator or auditor* pursuant to an appointment under section 3.2, or disclose information derived from the report or the identity of the *qualified reserves evaluator or auditor*, without the written consent of that *qualified reserves evaluator or auditor*.

(2) Subsection (1) does not apply to

(a) the filing of that report by a *reporting issuer* under section 2.1;

(b) the use of or reference to that report in another document filed by the *reporting issuer* under section 2.1; or

³

"Material change" has the meaning ascribed to the term under *securities legislation* of the applicable *jurisdiction*.

- (c) the identification of the report or of the *qualified reserves evaluator or auditor* in a ~~news release~~ **notice** referred to in section 2.2.

5.8 Disclosure of Less Than All Reserves - If a *reporting issuer* that has more than one *property* makes written disclosure of any *reserves* attributable to a particular *property*

- (a) the disclosure ~~shall~~ **must** include a cautionary statement to the effect that
"The estimates of reserves and future net revenue for individual properties may not reflect the same confidence level as estimates of reserves and future net revenue for all properties, due to the effects of aggregation"; and
- (b) the document containing the disclosure of any *reserves* attributable to one *property* ~~shall~~ **must** also disclose total *reserves* of the same classification for all *properties* of the *reporting issuer* in the same country (or, if appropriate and not misleading, in the same *foreign geographic area*).

5.9 Disclosure Concerning ~~Prospects~~ — of Resources

(1) If a *reporting issuer* discloses *anticipated results* from a ~~prospect~~ **resources which are not currently classified as reserves**, the *reporting issuer* ~~shall~~ **must** also disclose in writing, in the same document or in a *supporting filing*, ~~in respect of the prospect~~:

- ~~(a) — the location and basin name;~~
- ~~(a) (b) — the reporting issuer's gross and net's interest in the property, expressed in units of area (acres or hectares);~~ **resources**;
- ~~(c) — in the case of undeveloped property in which the reporting issuer holds a leasehold interest, the expiry date of that interest;~~
- ~~(d) — the name, geologic age and lithology of the target zone;~~
- ~~(e) — the distance to the nearest analogous commercial production;~~
- (b) — the location of the resources;**
- ~~(c) (f) — the product types reasonably expected;~~
- (d) (g) — the range of pool or field sizes;**
- ~~(h) — the depth of the target zone;~~
- ~~(i) — the estimated cost to drill and test a well to the target depth;~~
- ~~(j) — reasonably expected drilling commencement and completion dates;~~
- ~~(k) — the anticipated prices to be received for each product type reasonably expected;~~

- (l) — reasonably expected marketing and transportation arrangements;
- (m) — the identity and relevant experience of the operator;
- (n) — risks and the probability of success; and **level of uncertainty associated with recovery of the resources; and**
- (o) — the applicable information specified in section 5.10.

5.10 — Estimates of Fair Value of an Unproved Property, Prospect or Resource

- (e) in the case of unproved property, if its value is disclosed,**
 - (i) the basis of the calculation of its value; and**
 - (ii) whether the value was prepared by an independent party.**
- (2) If disclosure referred to in subsection (1) includes an estimate of a quantity of resources in which the reporting issuer has an interest or intends to acquire an interest, or an estimated value attributable to an estimated quantity, the estimate must**
 - (a) have been prepared or audited by a qualified reserves evaluator or auditor;**
 - (b) relate to the most specific category of resources in which the resources can be classified, as set out in the COGE Handbook, and must identify what portion of the estimate is attributable to each category; and**
 - (c) be accompanied by the following information:**
 - (i) a definition of the resources category used for the estimate;**
 - (ii) the effective date of the estimate;**
 - (iii) (1) If a reporting issuer discloses in writing an estimate of the fair value of an unproved property, prospect or resource, or discloses expected results from a prospect, the disclosure shall include all the significant positive and negative factors relevant to the estimate or expectation;**

~~(2) — If a *reporting issuer* discloses in writing an estimate of the fair value of an *unproved property, prospect or resource*—~~

~~(a) — in the case of an estimate of the fair value of an *unproved property*, except as provided in paragraph (b), the estimate shall be based on the first applicable item listed below, and that item shall be described as the basis of the estimate in the document containing the disclosure or in a *supporting filing*:~~

- ~~1. — the acquisition cost to the *reporting issuer*, provided that there have been no material changes in the *unproved property*, the surrounding *properties*, or the general *oil and gas* economic climate since acquisition;~~
- ~~2. — recent sales by others of interests in the same *unproved property*;~~
- ~~3. — terms and conditions, expressed in monetary terms, of recent farm-in agreements related to the *unproved property*;~~
- ~~4. — terms and conditions, expressed in monetary terms, of recent work commitments related to the *unproved property*;~~
- ~~5. — recent sales of similar *properties* in the same general area;~~

~~(b) — in the case of an estimate of fair value to which none of the items listed in paragraph (a) applies~~

~~(i) — the estimate shall be prepared or accepted by a professional valuator (who is not a "related party" of the *reporting issuer* within the meaning of the term as used in the *CICA Handbook*) applying valuation standards established by the professional body of which the valuator is a member and from which the valuator derives professional standing;~~

~~(ii) — the estimate shall consist of at least three values that reflect a range of reasonable likelihoods (the low value being conservative, the middle value being the median and the high value being optimistic) reflecting courses of action expected to be followed by the *reporting issuer*;~~

~~(iii) — the estimate, and the identities of the professional valuator and of the professional body referred to in subparagraph (i), shall be set out in the document containing the disclosure or in a *supporting filing*; and~~

~~(iv) the *reporting issuer* shall obtain from the professional valuator referred to in subparagraph (i) **estimated percentage probability that the issuer will**~~

- (A) discover hydrocarbons in sufficient quantity for them to be tested to the surface, in the case of *undiscovered resources* or a subcategory of *undiscovered resources*; or
 - (B) commercially extract the volume disclosed, in the case of *discovered resources* or a subcategory of *discovered resources* other than *reserves*;
 - (v) in respect of *contingent resources*, the specific contingencies which prevent the classification of the *resources* as *reserves*; and
 - (vi) cautionary language proximate to the estimate to the effect that:

 - (A) a report on the estimate that does not contain in the case of *discovered resources* or a subcategory of *discovered resources* other than *reserves*:

 - (I) — a disclaimer that materially detracts from the usefulness of the estimate; or
 - (II) — a statement that the report may not be relied on; and

“There is no certainty that it will be economically viable or technically feasible to produce any portion of the resources.”; or
 - (B) the professional valuator's written consent to the disclosure of the report by the *reporting issuer* to the public in the case of *undiscovered resources* or a subcategory of *undiscovered resources*:

“There is no certainty that any portion of the resources will be discovered. If discovered, there is no certainty that it will be economically viable or technically feasible to produce any portion of the resources.”
- (3) Paragraphs 5.9(1)(d) and (e) and subparagraphs 5.9(2)(c)(iii),(iv) and (v) do not apply if
- (a) the *reporting issuer* includes in the written disclosure a reference to the title and date of a previously filed document that complies with those requirements; and
 - (b) the *resources* in the written disclosure, taking into account the specific *properties* and interests reflected in the *resources* estimate or other *anticipated result*, are materially the same *resources* addressed in the previously filed document.

5.10 Analogous Information

- (1) Sections 5.2, 5.3 and 5.9 do not apply to the disclosure of *analogous information* provided that the reporting issuer discloses the following:**
- (a) the source and date of the *analogous information*;**
 - (b) whether the source of the *analogous information* was independent;**
 - (c) if the reporting issuer is unable to confirm that the *analogous information* was prepared by a *qualified reserves evaluator or auditor* or in accordance with the *COGE Handbook*, cautionary language to that effect proximate to the disclosure of the *analogous information*; and**
 - (d) the relevance of the *analogous information* to the reporting issuer's oil and gas activities.**
- (2) If a reporting issuer discloses information that is an *anticipated result*, an estimate of a quantity of *reserves or resources*, or an estimate of value attributable to an estimated quantity of *reserves or resources* for an area in which it has an interest or intends to acquire an interest that is based on an extrapolation from *analogous information* sections 5.2, 5.3 and 5.9 will apply to the disclosure of the information.**

5.11 Net Asset Value and Net Asset Value per Share - Written disclosure of net asset value or net asset value per share ~~shall~~**must** include a description of the methods used to value assets and liabilities and the number of shares used in the calculation.

5.12 Reserve Replacement - Written disclosure concerning *reserve* replacement ~~shall~~**must** include an explanation of the method of calculation applied.

5.13 Netbacks - Written disclosure of a netback **must**

~~(a) shall include separate netbacks for each *product type* by country (or, if appropriate and not misleading, by *foreign geographic area*);~~

(a) ~~(b)~~ shall reflect netbacks calculated by subtracting royalties and *operating costs* from revenues; and

(b) ~~(c)~~ shall state the method of calculation.

5.14 BOEs and McfGEs - If written disclosure includes information expressed in *BOEs*, *McfGEs* or other units of equivalency between *oil* and *gas*

(a) the information ~~shall~~**must** be presented

(i) in the case of *BOEs*, using *BOEs* derived by converting *gas* to *oil* in the ratio of six thousand cubic feet of *gas* to one barrel of *oil* (6 *Mcf*:1 *bbl*);

- (ii) in the case of *McfGEs*, using *McfGEs* derived by converting *oil* to *gas* in the ratio of one barrel of *oil* to six thousand cubic feet of *gas* (1 *bbl*:6 *Mcf*); and
- (iii) with the conversion ratio stated;
- (b) if the information is also presented using *BOEs* or *McfGEs* derived using a conversion ratio other than a ratio specified in paragraph (a), the disclosure shall must state that other conversion ratio and explain why it has been chosen;
- (c) if the information is presented using a unit of equivalency other than *BOEs* or *McfGEs*, the disclosure shall must identify the unit, state the conversion ratio used and explain why it has been chosen; and
- (d) the disclosure shall must include a cautionary statement to the effect that:

"BOEs [or '*McfGEs*' or other applicable units of equivalency] may be misleading, particularly if used in isolation. A BOE conversion ratio of 6 *Mcf*: 1 *bbl* [or 'An *McfGE* conversion ratio of 1 *bbl*: 6 *Mcf*'] is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent a value equivalency at the wellhead".

5.15 Finding and Development Costs - If written disclosure is made of finding and development costs:

- (a) those costs shall must be calculated using the following two methods, in each case after eliminating the effects of acquisitions and dispositions:

$$\text{Method 1:} \quad \frac{a+b+c}{x}$$

$$\text{Method 2:} \quad \frac{a+b+d}{y}$$

- where
- a = *exploration costs* incurred in the most recent financial year
 - b = *development costs* incurred in the most recent financial year
 - c = the change during the most recent financial year in estimated future *development costs* relating to *proved reserves*
 - d = the change during the most recent financial year in estimated future *development costs* relating to *proved reserves* and *probable reserves*
 - x = additions to *proved reserves* during the most recent financial year, expressed in *BOEs* or other unit of equivalency
 - y = additions to *proved reserves* and *probable reserves* during the most recent financial year, expressed in *BOEs* or other unit of equivalency

- (b) the disclosure ~~shall~~must include
- (i) the results of both methods of calculation under paragraph (a) and a description of those methods;
 - (ii) if the disclosure also includes a result derived using any other method of calculation, a description of that method and the reason for its use;
 - (iii) for each result, comparative information for the most recent financial year, the second most recent financial year and the averages for the three most recent financial years;
 - (iv) a cautionary statement to the effect that:

"The aggregate of the exploration and development costs incurred in the most recent financial year and the change during that year in estimated future development costs generally will not reflect total finding and development costs related to reserves additions for that year"; and
 - (v) the cautionary statement required under paragraph 5.14(d).

PART 6 MATERIAL CHANGE DISCLOSURE

6.1 Material Change⁴ from Information Filed under Part 2

- (1) This Part applies in respect of a material change that, had it occurred on or before the *effective date* of information included in the statement most recently filed by a *reporting issuer* under item 1 of section 2.1, would have resulted in a significant change in the information contained in the statement.
- (2) In addition to any other requirement of *securities legislation* governing disclosure of a material change, disclosure of a material change referred to in subsection (1) ~~shall~~ **must discuss the reporting issuer's reasonable expectation of how the material change has affected its reserves data or other information.**
- (a) ~~identify the statement filed under Part 2 that contains the original information referred to in subsection (1); and~~
 - (b) ~~discuss the reporting issuer's reasonable expectation of how the material change, had it occurred on or before the effective date referred to in subsection (1), would have affected the reserves data or other information contained in the document identified under paragraph (a).~~

⁴

In this Part, "material change" has the meaning ascribed to the term under *securities legislation* of the applicable jurisdiction.

PART 7 OTHER INFORMATION

7.1 Information to be Furnished on Request - A reporting issuer ~~shall~~**must**, on the request of the *regulator*, deliver additional information with respect to the content of a document filed under this *Instrument*.

PART 8 EXEMPTIONS

8.1 Authority to Grant Exemption

- (1) The *regulator* or the *securities regulatory authority* may grant an exemption from this *Instrument*, in whole or in part, subject to such conditions or restrictions as may be imposed in the exemption.
- (2) Despite subsection (1), in Ontario only the *regulator* may grant an exemption.

8.2 Exemption for Certain Exchangeable Security Issuers

- (1) An exchangeable security issuer, as defined in subsection 13.3(1) of NI 51-102, is exempt from this Instrument provided that all of the requirements of subsection 13.3(2) of NI 51-102 are satisfied;
- (2) For the purposes of subsection (1), the reference to “continuous disclosure documents” in clause 13.3(2)(d)(ii)(A) of NI 51-102 includes documents filed in accordance with this Instrument.

PART 9 INSTRUMENT IN FORCE

9.1 Coming Into Force - This *Instrument* comes into force on September 30, 2003.

9.2 Transition - Despite section 9.1, this *Instrument* does not apply to a reporting issuer until the earlier of:

- (a) the date by which the *reporting issuer* is required under *securities legislation* to file audited annual financial statements for its financial year that includes or ends on December 31, 2003; and
- (b) the first date on which the *reporting issuer* files with the *securities regulatory authority* the statement referred to in item 1 of section 2.1.

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