

23<sup>rd</sup> September 2016

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The Directors  
Union Jack Oil plc  
6 Charlotte Street  
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Dear Sirs

**Re: Audit of the Wressle Discovery and Broughton North Prospect, Licences PEDL 180 and 182, onshore UK.**

In accordance with your instructions, ERC Equipoise Ltd (ERCE) has made independent estimates of the Reserves, Contingent Resources and Prospective Resources of the Wressle Discovery and the Broughton North Prospect, which lie within PEDL 180 and 182, onshore UK. We have used information and data made available to the company by Egdon Resources UK Ltd, the Operator, up to and including 30<sup>th</sup> June 2016.

We have carried out this work using the March 2007 SPE/WPC/AAPG/SPEE Petroleum Resources Management System (PRMS) as the standard for classification and reporting. A summary of the PRMS is found in Attachment 1. Nomenclature that may be used in this letter is summarised in Attachment 2.

This letter is for the sole use of the addressees and their financial advisors. It may not be disclosed to any other person or used for any other purpose without the prior written approval of a Director of ERCE.

ERCE has made every effort to ensure that the interpretations, conclusions and recommendations presented herein are accurate and reliable, in accordance with good industry practice. ERCE does not, however, guarantee the correctness of any such interpretations and shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of its officers, agents or employees. In the case that material is delivered in digital format, ERCE does not accept any responsibility for edits carried out after the product has left the Company's premises.

### Summary of Results

Licence interests for the addressee companies are summarised in Table 1.

**Table 1: Licence Interests, PEDL 180 and 182**

Company	PEDL 180 Interest (%)	PEDL 182 Interest (%)
Egdon Resources U.K. Limited (Operator)	25.00%	25.00%
Celtique Energie Petroleum Ltd	33.33%	33.33%
Europa Oil & Gas Limited	33.34%	33.34%
Union Jack Oil plc	8.33%	8.33%
Licence Area (sq km)	40	19

ERCE has estimated both Stock Tank Oil Initially in Place (STOIIP), Gas Initially in Place within the gas cap, (Free GIIP), where appropriate, and Reserves and Contingent oil and gas Resources (free and solution gas) for the Wressle Discovery. For the Broughton North Prospect, ERCE has estimated STOIIP, Free GIIP and Prospective oil and gas Resources, together with an estimate of Geological Chance of Success (COS).

The development plan for the Ashover Grit and Wingfield Flags has now been submitted for approval by the UK Government and its submission with the respective Company approvals enables the Reserves to be classified as Justified for Development. Our estimates of Reserves, Justified for Development, for the Ashover Grit and Wingfield Flags reservoirs are summarised in Tables 2 and 3 below. It should be noted that Reserves attributable to the Ashover Grit and Wingfield Flags are dependent on a development plan

that involves commingled production, and cannot be assigned to standalone developments of either reservoir.

Gross estimates of STOIP, Free GIIP, Contingent oil and gas Resources (free and solution gas), Prospective oil and gas Resources (free and solution gas) and COS are presented in Table 4 to Table 8.

**Table 2: Oil Reserves, Justified for Development, Ashover Grit and Wingfield Flags, Wressle Discovery**

Reservoir	Oil Reserves, Justified for Development (MMstb)*		
	1P	2P	3P
Ashover	0.26	0.54	1.12
Wingfield	0.03	0.08	0.17

\*Reserves attributable to the Ashover Grit and Wingfield Flags are dependent on a development plan that involves commingled production, and cannot be assigned to standalone developments of either reservoir

**Table 3: Gas Reserves, Justified for Development, Ashover Grit and Wingfield Flags, Wressle Discovery**

Reservoir	Gas Reserves, Justified for Development (Bscf)*/**		
	1P	2P	3P
Ashover	0.08	0.16	0.31
Wingfield	0.02	0.04	0.09

\*including solution gas

\*\*Reserves attributable to the Ashover Grit and Wingfield Flags are dependent on a development plan that involves commingled production, and cannot be assigned to standalone developments of either reservoir

**Table 4: STOIP and Free GIIP for the Wressle Discovery**

Reservoir	STOIP (MMstb)				Free GIIP (Bscf)			
	Low	Mid	High	Mean	Low	Mid	High	Mean
Penistone	6.73	10.62	15.45	10.91	0.65	1.57	1.91	1.64
Wingfield	0.31	0.57	1.04	0.64	0.10	0.17	0.30	0.19
Ashover	1.36	2.40	4.18	2.63	-	-	-	-

**Table 5: Contingent oil Resources for the Wressle Discovery**

Reservoir	Contingent oil Resources (MMstb)		
	1C	2C	3C
Penistone	0.68	1.53	2.76

**Table 6: Contingent gas Resources for the Wressle Discovery**

Reservoir	Contingent gas Resources (Bscf)*		
	1C	2C	3C
Penistone	0.86	2.00	3.57
Ashover	0.04	0.09	0.21
Wingfield	0.07	0.13	0.24

\*including solution gas/solution gas only

**Table 7: STOIP and Prospective oil Resources for the Broughton North Prospect**

Reservoir	STOIP (MMstb)				Unrisked Prospective oil Resources (MMtsb)				Chance of Success	Risky Prospective oil Resources (MMtsb)			
	Low	Mid	High	Mean	Low	Best	High	Mean		Low	Best	High	Mean
Penistone	0.95	1.86	3.50	2.09	0.10	0.27	0.58	0.31	49%	0.05	0.13	0.28	0.15
Ashover	0.44	1.07	2.55	1.34	0.05	0.15	0.41	0.20	40%	0.02	0.06	0.16	0.08

**Table 8: GIIP and Prospective gas Resources for the Broughton North Prospect**

Reservoir	Free GIIP (Bscf)				Unrisked Prospective gas Resources (Bscf)*				Chance of Success	Risky Prospective gas Resources (Bscf)*			
	Low	Mid	High	Mean	Low	Best	High	Mean		Low	Best	High	Mean
Penistone	0.14	0.34	0.64	0.37	0.15	0.39	0.80	0.44	49%	0.07	0.19	0.39	0.22
Ashover	-	-	-	-	0.02	0.06	0.15	0.07	40%	0.01	0.02	0.06	0.03

\*including solution gas

## Methodology, Confirmations and Professional Qualifications

ERCE has carried out this review using data and information made available by the Operator, Egdon. These data comprise details of licence interests, basic exploration and engineering data, where available (including seismic data, well logs, core, PVT and test data), technical reports and interpreted data.

Our approach has been to commence our investigations with the most recent technical reports and interpreted data. From these we have been able to identify those items of basic data which require re-assessment.

In estimating petroleum in place and recoverable, ERCE has used standard techniques of petroleum engineering. These techniques combine geophysical and geological knowledge with detailed information concerning porosity and permeability distributions, fluid characteristics and reservoir pressure. There is uncertainty in the measurement and interpretation of basic data. We have estimated the degree of this uncertainty and determined the range of petroleum initially in place and recoverable.

No site visit was undertaken in the generation of this letter.

ERCE is an independent consultancy specialising in geoscience evaluation and engineering and economics assessment. Except for the provision of professional services on a time-based fee basis, ERCE has no commercial arrangement with any other person or company involved in the interests which are the subject of this letter. ERCE confirms that it is independent of the addressees of this letter, and their associated senior management and advisers.

ERCE has the relevant and appropriate qualifications, experience and technical knowledge to appraise professionally and independently the assets.

The work has been supervised by Dr Adam Law, Geoscience Director of ERCE, a post-graduate in Geology, a Fellow of the Geological Society and a member of the Society of Petroleum Evaluation Engineers (No 726).

Yours faithfully

ERC Equipoise Limited

A handwritten signature in black ink, appearing to be 'A. Law', written in a cursive style.

Adam Law  
Geoscience Director

## **Attachment 1**

### **SPE/WPC/AAPG/SPEE Petroleum Reserves and Resources Classification System and Definitions**

#### **The Petroleum Resources Management System**

##### **Preamble**

Petroleum Resources are the estimated quantities of hydrocarbons naturally occurring on or within the Earth's crust. Resource assessments estimate total quantities in known and yet-to-be-discovered accumulations; Resources evaluations are focused on those quantities that can potentially be recovered and marketed by commercial projects. A petroleum Resources managements system provides a consistent approach to estimating petroleum quantities, evaluating development projects and presenting results within a comprehensive classification framework.

International efforts to standardize the definitions of petroleum Resources and how they are estimated began in the 1930s. Early guidance focused on Proved Reserves. Building on work initiated by the Society of Petroleum Evaluation Engineers (SPEE), SPE published definitions for all Reserves categories in 1987. In the same year, the World Petroleum Council (WPC, then known as the World Petroleum Congress), working independently, published Reserves definitions that were strikingly similar. In 1997, the two organizations jointly released a single set of definitions for Reserves that could be used worldwide. In 2000, the American Association of Petroleum Geologists (AAPG), SPE, and WPC jointly developed a classification system for all petroleum Resources. This was followed by additional supporting documents: supplemental application evaluation guidelines (2001) and a glossary of terms utilized in Resources definitions (2005). SPE also published standards for estimating and auditing Reserves information (revised 2007).

These definitions and the related classification system are now in common use internationally within the petroleum industry. They provide a measure of comparability and reduce the subjective nature of Resources estimation. However, the technologies employed in petroleum exploration, development, production, and processing continue to evolve and improve. The SPE Oil and Gas Reserves Committee works closely with other organizations to maintain the definitions and issues periodic revisions to keep current with evolving technologies and changing commercial opportunities.

The SPE-PRMS consolidates, builds on, and replaces guidance previously contained in the 1997 Petroleum Reserves Definitions, the 2000 Petroleum Resources Classification and Definitions publications, and the 2001 "Guidelines for the Evaluation of Petroleum Reserves and Resources"; the latter document remains a valuable source of more detailed background information.

These definitions and guidelines are designed to provide a common reference for the international petroleum industry, including national reporting and regulatory disclosure agencies, and to support petroleum project and portfolio management requirements. They are intended to improve clarity in

global communications regarding petroleum Resources. It is expected that the SPE-PRMS will be supplemented with industry education programs and application guides addressing their implementation in a wide spectrum of technical and/or commercial settings.

It is understood that these definitions and guidelines allow flexibility for users and agencies to tailor application for their particular needs; however, any modifications to the guidance contained herein should be clearly identified. The definitions and guidelines contained in this document must not be construed as modifying the interpretation or application of any existing regulatory reporting requirements.

The full text of the SPE/WPC/AAPG/SPEE Petroleum Resources Management System document, hereinafter referred to as the SPE-PRMS, can be viewed at

[www.spe.org/specma/binary/files6859916Petroleum\\_Resources\\_Management\\_System\\_2007.pdf](http://www.spe.org/specma/binary/files6859916Petroleum_Resources_Management_System_2007.pdf) .

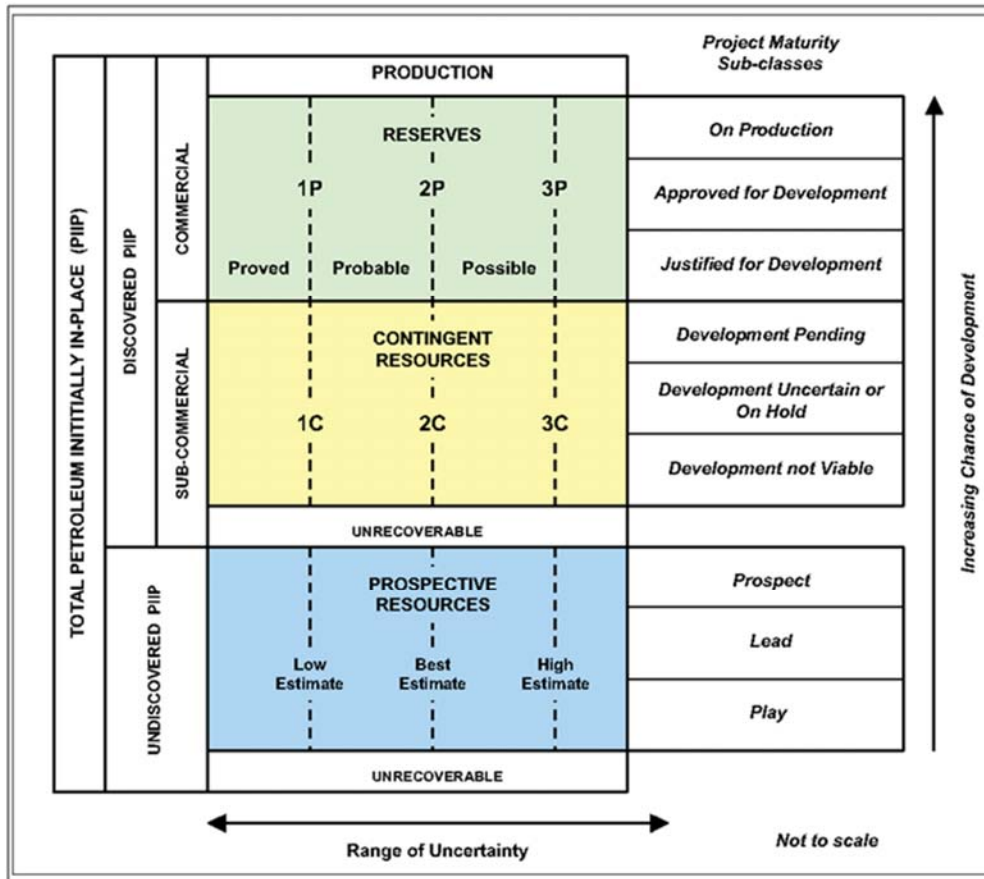
### **Overview and Summary of Definitions**

The estimation of petroleum resource quantities involves the interpretation of volumes and values that have an inherent degree of uncertainty. These quantities are associated with development projects at various stages of design and implementation. Use of a consistent classification system enhances comparisons between projects, groups of projects, and total company portfolios according to forecast production profiles and recoveries. Such a system must consider both technical and commercial factors that impact the project's economic feasibility, its productive life, and its related cash flows.

Petroleum is defined as a naturally occurring mixture consisting of hydrocarbons in the gaseous, liquid, or solid phase. Petroleum may also contain non-hydrocarbons, common examples of which are carbon dioxide, nitrogen, hydrogen sulphide and sulphur. In rare cases, non-hydrocarbon content could be greater than 50%.

The term "Resources" as used herein is intended to encompass all quantities of petroleum naturally occurring on or within the Earth's crust, discovered and undiscovered (recoverable and unrecoverable), plus those quantities already produced. Further, it includes all types of petroleum whether currently considered conventional" or "unconventional."

Figure 1-1 is a graphical representation of the SPE/WPC/AAPG/SPEE Resources classification system. The system defines the major recoverable Resources classes: Production, Reserves, Contingent Resources, and Prospective Resources, as well as Unrecoverable petroleum.



**Figure 1-1: SPE/AAPG/WPC/SPEE Resources Classification System**

The “Range of Uncertainty” reflects a range of estimated quantities potentially recoverable from an accumulation by a project, while the vertical axis represents the “Chance of Development”, that is, the chance that the project that will be developed and reach commercial producing status.

The following definitions apply to the major subdivisions within the Resources classification:

**TOTAL PETROLEUM INITIALLY-IN-PLACE**

Total Petroleum Initially in Place is that quantity of petroleum that is estimated to exist originally in naturally occurring accumulations.

It includes that quantity of petroleum that is estimated, as of a given date, to be contained in known accumulations prior to production plus those estimated quantities in accumulations yet to be discovered (equivalent to “total Resources”).



## **DISCOVERED PETROLEUM INITIALLY-IN-PLACE**

Discovered Petroleum Initially in Place is that quantity of petroleum that is estimated, as of a given date, to be contained in known accumulations prior to production.

## **PRODUCTION**

Production is the cumulative quantity of petroleum that has been recovered at a given date.

Multiple development projects may be applied to each known accumulation, and each project will recover an estimated portion of the initially-in-place quantities. The projects shall be subdivided into Commercial and Sub-Commercial, with the estimated recoverable quantities being classified as Reserves and Contingent Resources respectively, as defined below.

## **RESERVES**

Reserves are those quantities of petroleum anticipated to be commercially recoverable by application of development projects to known accumulations from a given date forward under defined conditions.

Reserves must satisfy four criteria: they must be discovered, recoverable, commercial, and remaining based on the development project(s) applied. Reserves are further subdivided in accordance with the level of certainty associated with the estimates and may be sub-classified based on project maturity and/or characterized by their development and production status. To be included in the Reserves class, a project must be sufficiently defined to establish its commercial viability. There must be a reasonable expectation that all required internal and external approvals will be forthcoming, and there is evidence of firm intention to proceed with development within a reasonable time frame. A reasonable time frame for the initiation of development depends on the specific circumstances and varies according to the scope of the project. While five years is recommended as a benchmark, a longer time frame could be applied where, for example, development of economic projects are deferred at the option of the producer for, among other things, market-related reasons, or to meet contractual or strategic objectives.

In all cases, the justification for classification as Reserves should be clearly documented. To be included in the Reserves class, there must be a high confidence in the commercial producibility of the reservoir as supported by actual production or formation tests. In certain cases, Reserves may be assigned on the basis of well logs and/or core analysis that indicate that the subject reservoir is hydrocarbon-bearing and is analogous to reservoirs in the same area that are producing or have demonstrated the ability to produce on formation tests.

### **Proved Reserves**

Proved Reserves are those quantities of petroleum, which by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under defined economic conditions, operating methods, and government regulations.

If deterministic methods are used, the term reasonable certainty is intended to express a high degree of confidence that the quantities will be recovered. If probabilistic methods are used, there should be at least a 90% probability that the quantities actually recovered will equal or exceed the estimate. The area of the reservoir considered as Proved includes:

*the area delineated by drilling and defined by fluid contacts, if any, and*

*adjacent undrilled portions of the reservoir that can reasonably be judged as continuous with it and commercially productive on the basis of available geoscience and engineering data.*

In the absence of data on fluid contacts, Proved quantities in a reservoir are limited by the lowest known hydrocarbon (LKH) as seen in a well penetration unless otherwise indicated by definitive geoscience, engineering, or performance data. Such definitive information may include pressure gradient analysis and seismic indicators. Seismic data alone may not be sufficient to define fluid contacts for Proved Reserves (see "2001 Supplemental Guidelines," Chapter 8). Reserves in undeveloped locations may be classified as Proved provided that the locations are in undrilled areas of the reservoir that can be judged with reasonable certainty to be commercially productive and interpretations of available geoscience and engineering data indicate with reasonable certainty that the objective formation is laterally continuous with drilled Proved locations.

For Proved Reserves, the recovery efficiency applied to these reservoirs should be defined based on a range of possibilities supported by analogues and sound engineering judgment considering the characteristics of the Proved area and the applied development program.

### **Probable Reserves**

Probable Reserves are those additional Reserves which analysis of geoscience and engineering data indicate are less likely to be recovered than Proved Reserves but more certain to be recovered than Possible Reserves.

It is equally likely that actual remaining quantities recovered will be greater than or less than the sum of the estimated Proved plus Probable Reserves (2P). In this context, when probabilistic methods are used, there should be at least a 50% probability that the actual quantities recovered will equal or exceed the 2P estimate.

Probable Reserves may be assigned to areas of a reservoir adjacent to Proved where data control or interpretations of available data are less certain. The interpreted reservoir continuity may not meet the reasonable certainty criteria. Probable estimates also include incremental recoveries associated with project recovery efficiencies beyond that assumed for Proved.

### **Possible Reserves**

Possible Reserves are those additional Reserves which analysis of geoscience and engineering data indicate are less likely to be recoverable than Probable Reserves

The total quantities ultimately recovered from the project have a low probability to exceed the sum of Proved plus Probable plus Possible (3P), which is equivalent to the high estimate scenario. When probabilistic methods are used, there should be at least a 10% probability that the actual quantities recovered will equal or exceed the 3P estimate.

Possible Reserves may be assigned to areas of a reservoir adjacent to Probable where data control and interpretations of available data are progressively less certain. Frequently, this may be in areas where geoscience and engineering data are unable to clearly define the area and vertical reservoir limits of commercial production from the reservoir by a defined project.

Possible estimates also include incremental quantities associated with project recovery efficiencies beyond that assumed for Probable.

### **Probable and Possible Reserves**

(See above for separate criteria for Probable Reserves and Possible Reserves.)

The 2P and 3P estimates may be based on reasonable alternative technical and commercial interpretations within the reservoir and/or subject project that are clearly documented, including comparisons to results in successful similar projects.

In conventional accumulations, Probable and/or Possible Reserves may be assigned where geoscience and engineering data identify directly adjacent portions of a reservoir within the same accumulation that may be separated from Proved areas by minor faulting or other geological discontinuities and have not been penetrated by a wellbore but are interpreted to be in communication with the known (Proved) reservoir. Probable or Possible Reserves may be assigned to areas that are structurally higher than the Proved area. Possible (and in some cases, Probable) Reserves may be assigned to areas that are structurally lower than the adjacent Proved or 2P area.

Caution should be exercised in assigning Reserves to adjacent reservoirs isolated by major, potentially sealing, faults until this reservoir is penetrated and evaluated as commercially productive. Justification for assigning Reserves in such cases should be clearly documented. Reserves should not be assigned to areas that are clearly separated from a known accumulation by non-productive reservoir (i.e., absence of reservoir, structurally low reservoir, or negative test results); such areas may contain Prospective Resources.

In conventional accumulations, where drilling has defined a highest known oil (HKO) elevation and there exists the potential for an associated gas cap, Proved oil Reserves should only be assigned in the structurally higher portions of the reservoir if there is reasonable certainty that such portions are initially above bubble point pressure based on documented engineering analyses. Reservoir portions that do not meet this certainty may be assigned as Probable and Possible oil and/or gas based on reservoir fluid properties and pressure gradient interpretations.

## **CONTINGENT RESOURCES**

Contingent Resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from known accumulations by application of development projects, but which are not currently considered to be commercially recoverable due to one or more contingencies.

Contingent Resources may include, for example, projects for which there are currently no viable markets, or where commercial recovery is dependent on technology under development, or where evaluation of the accumulation is insufficient to clearly assess commerciality. Contingent Resources are further categorized in accordance with the level of certainty associated with the estimates and may be sub-classified based on project maturity and/or characterized by their economic status.

## **UNDISCOVERED PETROLEUM INITIALLY-IN-PLACE**

Undiscovered Petroleum Initially in Place is that quantity of petroleum that is estimated, as of a given date, to be contained within accumulations yet to be discovered.

## **PROSPECTIVE RESOURCES**

Prospective Resources are those quantities of petroleum which are estimated, as of a given date, to be potentially recoverable from undiscovered accumulations.

Potential accumulations are evaluated according to their chance of discovery and, assuming a discovery, the estimated quantities that would be recoverable under defined development projects. It is recognized that the development programs will be of significantly less detail and depend more heavily on analog developments in the earlier phases of exploration.

### **Prospect**

A project associated with a potential accumulation that is sufficiently well defined to represent a viable drilling target.

Project activities are focused on assessing the chance of discovery and, assuming discovery, the range of potential recoverable quantities under a commercial development program.

### **Lead**

A project associated with a potential accumulation that is currently poorly defined and requires more data acquisition and/or evaluation in order to be classified as a prospect.

Project activities are focused on acquiring additional data and/or undertaking further evaluation designed to confirm whether or not the lead can be matured into a prospect. Such evaluation includes the assessment of the chance of discovery and, assuming discovery, the range of potential recovery under feasible development scenarios.

## **Play**

A project associated with a prospective trend of potential prospects, but which requires more data acquisition and/or evaluation in order to define specific leads or prospects.

Project activities are focused on acquiring additional data and/or undertaking further evaluation designed to define specific leads or prospects for more detailed analysis of their chance of discovery and, assuming discovery, the range of potential recovery under hypothetical development scenarios.

The range of uncertainty of the recoverable and/or potentially recoverable volumes may be represented by either deterministic scenarios or by a probability distribution. When the range of uncertainty is represented by a probability distribution, a low, best, and high estimate shall be provided such that:

- There should be at least a 90% probability (P90) that the quantities actually recovered will equal or exceed the low estimate.
- There should be at least a 50% probability (P50) that the quantities actually recovered will equal or exceed the best estimate.
- There should be at least a 10% probability (P10) that the quantities actually recovered will equal or exceed the high estimate.

When using the deterministic scenario method, typically there should also be low, best, and high estimates, where such estimates are based on qualitative assessments of relative uncertainty using consistent interpretation guidelines. Under the deterministic incremental (risk-based) approach, quantities at each level of uncertainty are estimated discretely and separately.

These same approaches to describing uncertainty may be applied to Reserves, Contingent Resources, and Prospective Resources. While there may be significant risk that sub-commercial and undiscovered accumulations will not achieve commercial production, it useful to consider the range of potentially recoverable quantities independently of such a risk or consideration of the resource class to which the quantities will be assigned.

Evaluators may assess recoverable quantities and categorize results by uncertainty using the deterministic incremental (risk-based) approach, the deterministic scenario (cumulative) approach, or probabilistic methods (see “2001 Supplemental Guidelines,” Chapter 2.5). In many cases, a combination of approaches is used.

Use of consistent terminology (Figure 1.1) promotes clarity in communication of evaluation results. For Reserves, the general cumulative terms low/best/high estimates are denoted as 1P/2P/3P, respectively. The associated incremental quantities are termed Proved, Probable and Possible. Reserves are a subset of, and must be viewed within context of, the complete Resources classification system. While the categorization criteria are proposed specifically for Reserves, in most cases, they can be equally applied to Contingent and Prospective Resources conditional upon their satisfying the criteria for discovery and/or development.

For Contingent Resources, the general cumulative terms low/best/high estimates are denoted as 1C/2C/3C respectively. For Prospective Resources, the general cumulative terms low/best/high estimates still apply. No specific terms are defined for incremental quantities within Contingent and Prospective Resources.

Without new technical information, there should be no change in the distribution of technically recoverable volumes and their categorization boundaries when conditions are satisfied sufficiently to reclassify a project from Contingent Resources to Reserves. All evaluations require application of a consistent set of forecast conditions, including assumed future costs and prices, for both classification of projects and categorization of estimated quantities recovered by each project.

## Attachment 2: Nomenclature

### Units and their abbreviations

<b>°C</b>	degrees Celsius
<b>°F</b>	degrees Fahrenheit
<b>bbbl</b>	barrel
<b>bbbl/d</b>	barrels per day
<b>Bscf</b>	thousands of millions of standard cubic feet
<b>boe</b>	barrels of oil equivalent, where 6000 scf of gas = 1 bbl of oil
<b>cP</b>	centipoises
<b>FcD</b>	Fracture Conductivity
<b>ft</b>	feet
<b>ftMDRKB</b>	feet below Kelly Bushing
<b>ftTVDSS</b>	feet subsea
<b>km</b>	kilometres
<b>m</b>	metres
<b>M and MM/mm</b>	thousands and millions respectively
<b>md</b>	millidarcy
<b>mol%</b>	Mole percent
<b>mTVDSS</b>	metres subsea
<b>ppm</b>	parts per million
<b>psia</b>	pounds per square inch absolute
<b>psig</b>	pounds per square inch gauge
<b>PTA</b>	Pressure Transient Analysis
<b>pu</b>	porosity unit
<b>rcf</b>	cubic feet at reservoir conditions
<b>rb</b>	reservoir barrels
<b>scf</b>	standard cubic feet measured at 14.7 pounds per square inch and 60 degrees Fahrenheit
<b>scf/d</b>	standard cubic feet per day
<b>stb</b>	a stock tank barrel which is 42 US gallons measured at 14.7 pounds per square inch and 60 degrees Fahrenheit
<b>stb/d</b>	stock tank barrels per day

## Resources Categorisation

The following are SPE PRMS terms, defined in Attachment 1:

<b>1P</b>	Proved, a low estimate category of Reserves
<b>2P</b>	Proved + Probable, a best estimate category of Reserves
<b>3P</b>	Proved + Probable +Possible, a high estimate category of Reserves
<b>P90</b>	90% confidence of being exceeded
<b>P50</b>	50% confidence of being exceeded
<b>P10</b>	10% confidence of being exceeded
<b>1C</b>	a low estimate category of Contingent Resources
<b>2C</b>	a best estimate category of Contingent Resources
<b>3C</b>	a high estimate category of Contingent Resources
<b>Low</b>	a low estimate category of Prospective Resources also used as a generic term to describe a low or conservative estimate
<b>Best</b>	a best estimate category of Prospective Resources also used as a generic term to describe a best, or mid estimate
<b>High</b>	a high estimate category of Prospective Resources also used as a generic term to describe a high or optimistic estimate
<b>Low</b>	a low case estimate of hydrocarbons in place
<b>Mid</b>	a mid case estimate of hydrocarbons in place
<b>High</b>	a high case estimate of hydrocarbons in place



## Terms and their abbreviations

<b>Bg</b>	gas formation volume factor
<b>CGR</b>	condensate gas ratio
<b>COS</b>	geological chance of success
<b>CPI</b>	computer processed information log
<b>DST</b>	drill stem test
<b>Eg</b>	gas expansion factor
<b>FBHP</b>	Flowing bottom hole pressure
<b>FDP</b>	field development plan
<b>FPV</b>	Floating Production Vessel
<b>FTHP</b>	flowing tubing head pressure
<b>FWL</b>	free water level
<b>GDT</b>	gas down to
<b>GEF</b>	gas expansion factor
<b>GIIP</b>	gas initially in place
<b>GRV</b>	gross rock volume
<b>GWC</b>	gas water contact
<b>kh</b>	permeability thickness
<b>MD</b>	measured depth
<b>MSL</b>	mean sea level
<b>N/G</b>	net to gross ratio
<b>NPV xx</b>	net present value at xx discount rate
<b>ODT</b>	oil down to
<b>OWC</b>	oil water contact
<b>Phi</b>	porosity
<b>Phie</b>	effective porosity
<b>Phit</b>	total porosity
<b>PSDM</b>	post stack depth migration
<b>PSTM</b>	post stack time migration
<b>PVT</b>	pressure volume temperature experiment
<b>RCA</b>	routine core analysis
<b>Sw</b>	water saturation
<b>TD</b>	total depth
<b>TVD</b>	true vertical depth
<b>TWT</b>	two way time

**WGR** water gas ratio

**WUT** water up to