Date: 18 March 2024

ASX Code: GLV

Capital Structure
Ordinary Shares: 557,333,676
Current Share Price: 2.5c
Market Capitalisation: $13.9M
Cash: $1.8M (Dec. 2023)
EV: $12.1M
Debt: Nil

Directors

Matt Ireland
Non-Executive Chairman

Scott Macmillan
Non-Executive Director

Ricardo Garzon Rangel
Non-Executive Director

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**ASX ANNOUNCEMENT**

# Global's licence area incorporates discovered gas field with significant resources

## Highlights

- **Piedra Redonda gas field contains 'Best Estimate' Contingent Resources of 404 billion cubic feet (Bcf) plus 'Best Estimate' Prospective Resources of 2.2 trillion cubic feet (Tcf) of gas audited by Netherland, Sewell & Associates, Inc.**
- **Piedra Redonda gas field is located within Global's TEA offshore Peru and is a significant asset in its own right, requiring further evaluation in parallel with other significant oil prospects identified within the TEA**
- **Piedra Redonda will be the focus of the third and final area for reprocessing of existing 3D seismic to further refine and enhance this exciting gas field to understand the potential for future commercialisation**

Global Oil and Gas Limited (ASX: GLV) (**Global** or **Company**) has identified the Piedra Redonda gas field located, in its entirety, within Global's (80% holder) 4,858km$^2$ oil and gas Tumbes Technical Evaluation Agreement (TEA or block) offshore Peru, where work carried out by the previous operator, BPZ Energy, and the internationally recognised oil and gas auditing firm Netherland, Sewell & Associates, Inc (**NSAI**) defined Contingent and Prospective resources for the Piedra Redonda gas field.

NSAI defined, with an estimate date of the 1 January 2010, a Best Estimate (2C) gross Contingent Resource of 404 billion cubic feet of gas (**Bcf**) (323 Bcf net to Global) from the existing discovery well C-18X and C-13X appraisal well, and in addition, a Best Estimate (2U) Prospective Resource[#] of 2.2 trillion cubic feet of undiscovered gas (**Tcf**) (1.8 Tcf net to Global) in the Piedra Redonda gas field. Please see the Notes in the Appendix relating to the estimates for further information.

[#]Cautionary Statement: The estimated quantities of gas that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both a risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable hydrocarbons.

**Director Scott Macmillan commented:**

*"We are excited with the results of our initial review of the Piedra Redonda gas field which contains a best estimate of 404 billion cubic feet (2C gross) and further exploration upside of 2,200 billion cubic feet of gas (2U gross) in the Mancora Formation.*

*Piedra Redonda is located in shallow water within our Tumbes TEA area and will be further evaluated as part of the historical 3D seismic reprocessing exercise being undertaken by Global to mature our understanding of the play diversity and portfolio of prospects in the TEA.*

*Whilst we will continue to focus on the evaluation of the oil targets identified in the initial two seismic reprocessing areas selected, the Piedra Redonda gas field offers the Company a low risk discovered gas field with significant resources and further upside within the field which will be evaluated for potential commercialisation."*

**Piedra Redonda Gas Field**

The Piedra Redonda gas field is hosted in the Lower Oligocene Mancora Formation and is defined by a wedge-shape structural trap between two faults (Figure 1).

The Mancora Formation is composed of a series of lowstand and highstand stratigraphic sequences and is bounded by the younger Heath Formation of Late Oligocene age and Eocene age sediments (Figure 3).

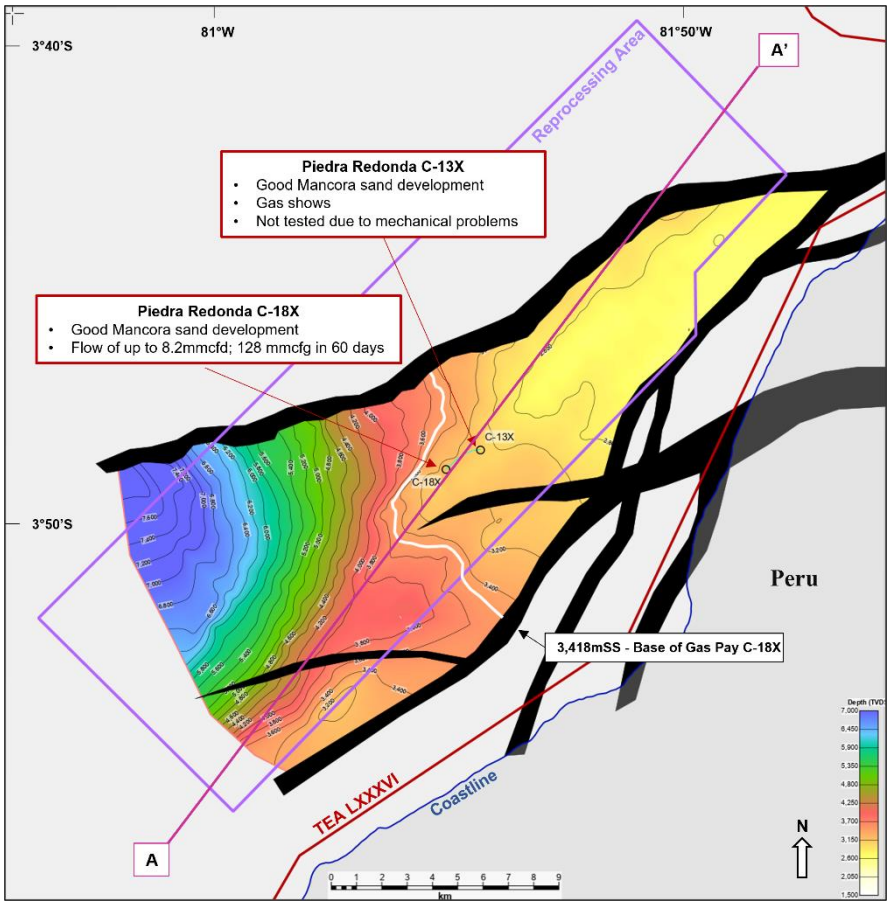


**Figure 1** – Piedra Redonda - Mancora reservoir depth map showing the C-18X and C-13X wells

The presence of gas was proven in 1978 by the C-18X well which was drilled in 55m of water and flowed at a maximum rate of 8.2 million standard cubic feet per day of gas (mmscfd), recovering a total of 128 million cubic feet of gas (mmcfg) during an extended test over 60 days.

**Figure 2** – C-18X well platform

Follow up well C-13X, drilled in 1984 approximately 1.6km up-dip from C-18X, produced gas shows and indicated good sand development in the Mancora Formation, however was not tested due to mechanical problems.

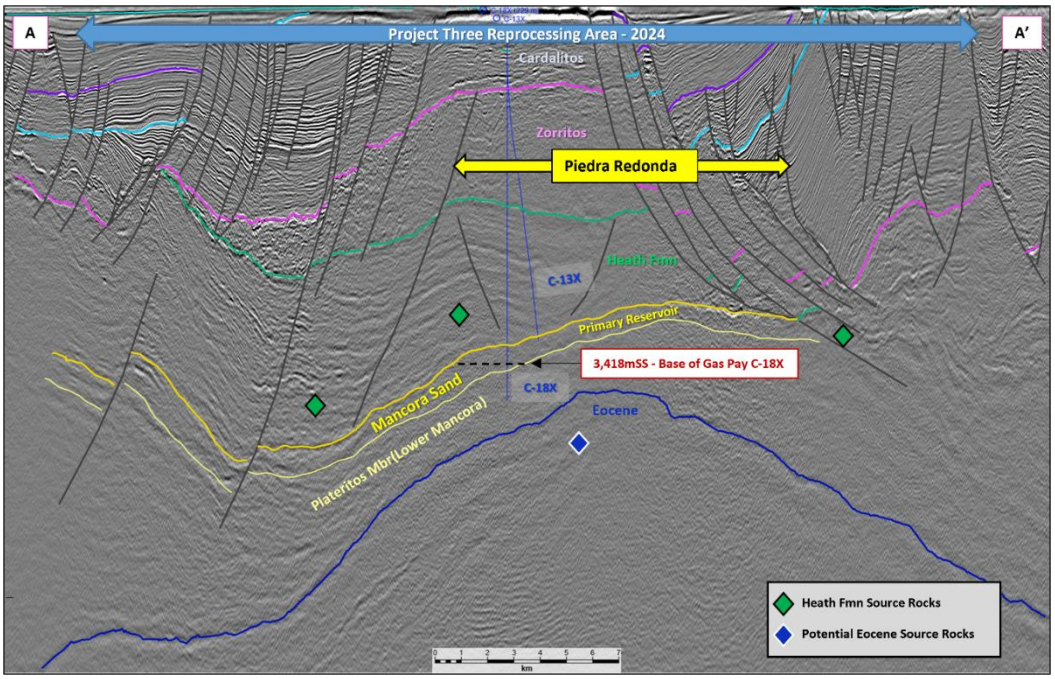


**Figure 3** – Piedra Redonda illustrative seismic section showing the C-18X discovery well and the C-13X appraisal well.

## Piedra Redonda Independent Contingent and Prospective Resource Estimate

As part of the review of historical documents collected from Perupetro (the Peruvian national oil regulator) and the previous operator (BPZ Energy), Global has reviewed several reports which provide estimations of Contingent and Prospective gas resources for the Piedra Redonda gas field. A summary of which are presented on a gross (100%) and net (80% GLV) basis in Tables 1 and 2.

The reports include a deterministic assessment of resources, with an estimate date of 1 January 2010, prepared by Netherland Sewell & Associates, Inc[1] who are a worldwide leader of petroleum property analysis for industry, financial organisations and government agencies. The assesment was prepared for previous oil and gas block holder, BPZ Energy, whose licence at the time included the Piedra Redonda gas field as well as the Corvina and Alvacora oil fields.

| **Tumbes TEA** | **CONTINGENT GAS RESOURCE ESTIMATE** | | |
|---|---|---|---|
| **Piedra Redonda** | **Low Estimate - 1C** (Bcf) | **Best Estimate - 2C** (Bcf) | **High Estimate - 3C** (Bcf) |
| **Gross (100%)** | 314 | 404 | 465 |
| **Net (80% GLV)** | 251 | 323 | 372 |

**Table 1** –NSAI contingent gas resource estimate for the Piedra Redonda gas field relate to estimated recoverable discovered resources estimated as of 1 January 2010

| **Tumbes TEA** | **PROSPECTIVE GAS RESOURCE ESTIMATE** | | |
|---|---|---|---|
| **Piedra Redonda** | **Low Estimate - 1U** (Bcf) | **Best Estimate - 2U** (Bcf) | **High Estimate - 3U** (Bcf) |
| **Gross (100%)** | 1,596 | 2,224 | 2,852 |
| **Net (80% GLV)** | 1,277 | 1,779 | 2,282 |

**Table 2** – NSAI prospective gas resource estimate[#] for the Piedra Redonda gas field relate to estimated recoverable undiscovered resources estimated as of 1 January 2010

[#]Cautionary Statement: The estimated quantities of gas that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both a risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable hydrocarbons.

Global will undertake additional studies as part of its evaluation of the Tumbes TEA to further refine and enhance this exciting gas field to understand the potential for future commercialisation.

Please see the Notes in the Appendix for further information relating to the estimation of Contingent and Prospective Resources.

**Piedra Redonda 3rd 3D Seisimic Reprocessing Area**

The Piedra Redonda gas field is the third discrete area selected by Global for reprocessing of existing 3D seismic data. In aggregate, 1,000km$^2$ of existing seismic across three separate areas is to be reprocessed out of the total 3,800km$^2$ of 3D seismic data available within the TEA.

Global had previously selected two areas, incorporating the Bonito, Volador and Raya prospects[2], over a combined area of 650km$^2$. The third project area, Piedra Redonda, was selected to further confirm, refine and enhance the existing Prospective and Contingent resources identified at the Piedra Redonda gas field.

[1] Netherland, Sewell & Associates, Inc (2011), Assessment of Contingent and Prospective Resources for Block Z-1, Offshore Peru

[2] See Global's announcements dated 12 and 21 February 2024

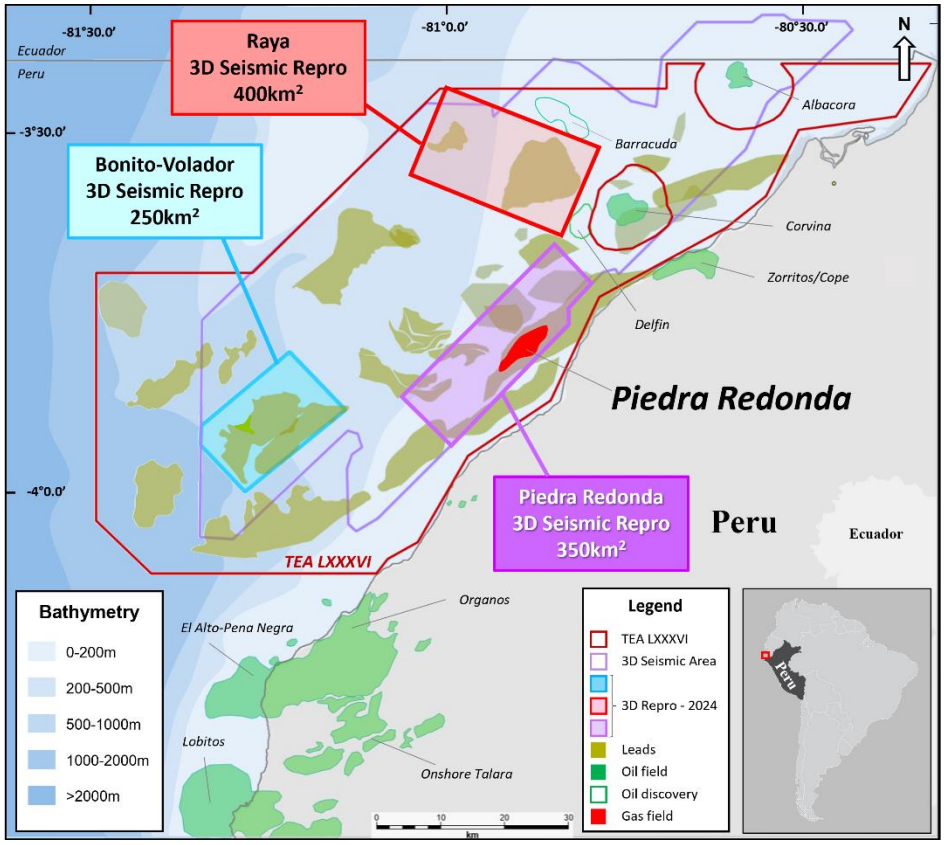


**Figure 4** –Piedra Redonda Gas Field and areas selected for seismic re-processing

**About the Tumbes Basin TEA**

A Technical Evaluation Agreement (TEA) is an oil and gas contract that provides the holder with the exclusive right to negotiate a Licence Contract over the TEA area.

In August 2023 the Company with its partner Jaguar Exploration, Inc (Jaguar) entered into the 4,858km$^2$ TEA offshore Peru with Perupetro. The TEA area covers almost all of the Peruvian offshore Tumbes Basin in moderate water depths of between 100m to 1,500m. The block is surrounded by, and incorporates, multiple historic and currently producing oil and gas fields.

The TEA provides Global and Jaguar with a two-year exclusive option (with the possibility of a further one-year extension) to convert all or part of the expansive TEA area into one or more Licence Contracts.

The TEA's two year work commitment agreed with PeruPetro is summarised in the table below:

| Period | Term | Jobs / Activities |
|---|---|---|
| First | Twelve Months | • Reprocessing up to pre-stack depth migration (PSDM) of 1000 km$^2$ of 3D seismic data. |
| | | • Amplitude versus offset (AVO) studies. |
| Second | Twelve Months | • Geological and Geophysical Studies, including 3D seismic interpretation, seismo-stratigraphic and structural analysis. |
| | | • Catalog of prospects and leads. |
| | | • Integrated Final Report of the work carried out. |

Global is 80% holder of the TEA, with Jaguar holding the remaining 20%.

Authorised by the Board of Global Oil & Gas Limited.

**For further information please contact:**

Scott Macmillan – Director
info@globaloilandgas.com.au

**Competent Persons Statement**

The information in this report is based on information compiled or reviewed by Mr Scott Macmillan, Non-Executive Director of Global Oil & Gas Limited. Mr Macmillan is a Reservoir Engineer with more than 15 years' experience in oil and gas exploration, field development planning, reserves and resources assessment, reservoir simulation, commercial valuations and business development. Mr Macmillan has a Bachelor degree of Chemical Engineering and an MSc in Petroleum Engineering from Curtin University and is a member of the Society of Petroleum Engineers (SPE).

Note: The Prospective estimated quantities of gas that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both a risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable hydrocarbons.

## APPENDIX

**Notes – Piedra Redonda Contingent Resources**

1. The estimated quantities of Contingent Resources are those quantities of petroleum which are estimated, as of a given date, to be potentially recoverable from known accumulations, but for which the project or projects are not yet considered mature enough for commercial development because of one or more contingencies.
2. The recoverable hydrocarbon volume estimates were prepared by NSAI and the previous operator BPZ Energy and stated in the tables above have been prepared in accordance with the definitions and guidelines set forth in the Petroleum Resources Management System, 2007, approved by the Society of Petroleum Engineers.
3. The Contingent Resources were estimated based on the drilling of the discovery well C-18X and subsequent flow test which demonstrated flow to surface of hydrocarbons.
4. The Contingent Resources were estimated contingent upon (1) establishing access to a gas market suitable for these volumes, (2) drilling to define the extent of the reservoir, including homogeneity of petrophysical parameters, (3) extended well testing to define commerciality, and (4) an approved development plan.
5. NSAI's estimates were based on a combination of subsurface structure data, surface geology, and well log data. Subsurface structure maps were used where 2D seismic data were available, and the surface geology was used to interpret areal extents based on faulting patterns and formations seen in the log data. The log data was analysed to calculate net pay, porosity, and water saturation.
6. Contingent volumes were estimated for an area around the C-18X well only with the updip limit defined by a local structural high that is bounded to the southeast by a large fault. The downdip limits were defined based on a combination of log-calculated pay and well test information. The 1C case includes gas down to the base of the well test interval, 2C interval to the base of the log pay interval, and a 3C interval to the top of the water (deeper in the formation).
7. Further studies including 2D and/or 3D seismic reprocessing, further appraisal drilling and well testing, development concept and feasibility is required to determine the potential commerciality and mature to reserves.
8. The evaluation date for the Contingent and Prospective Resources stated within this document is 1 January 2010 and were calculated using a deterministic method. All Contingent and Prospective Resources indicated within Tables 1 and 2 are for a Gross 100% and Net 80% GLV interest in the TEA and are net of government royalties as these are yet to be negotiated with Perupetro.

**Notes – Piedra Redonda Prospective Resources**

1. The estimated quantities of Prospective Resources stated above that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.
2. The recoverable hydrocarbon volume estimates were prepared by NSAI and the previous operator BPZ Energy and stated in the tables above have been prepared in accordance with the definitions and guidelines set forth in the Petroleum Resources Management System, 2007, approved by the Society of Petroleum Engineers.
3. The Prospective resource estimates have been estimated by deterministic methods using parameters derived from the C-18X and C-13X wells drilled in the Piedra Redonda field. The Prospective Resource area is located adjacent to the discovered Piedra
4. The Prospective Resources has been determined probabilistically for Oil Initially in Place (OIIP) for the

oil cases and Gas Initially In Place (GIIP) for the gas cases. Analogue recovery factors were applied to the probabilistically determined numbers to give the final prospective resource numbers. The condensate Prospective Resources for the gas case were calculated using a low, mid and high condensate gas ratio (CGR) based on source rock analysis and applied to the low, mid and high case GIIP to determine Condensate Initially In Place (CIIP). Prospective Resource numbers for condensate were then calculated using analogue low, mid and high case recovery factors applied to the low, mid and high CIIP.

5. Prospective Resources are reported on a low, best, high and mean estimates in the most specific category that reflects degree of uncertainty and have not been adjusted for risk.
6. The Best Estimates reported represent that there is a 50% probability that the actual resource volume will be in excess of the amounts reported. #Refer to cautionary statement above.
7. The estimates for unrisked Prospective Resources have not been adjusted for both an associated chance of discovery and a chance of development.
8. The chance of development has not been estimated by the Company at this stage and will be subject to further studies to determine the likelihood of commerciality. However, the previous operator BPZ Energy planned an onshore domestic gas to power development for Piedra Redonda which indicates a reasonable chance of development (greater than 50%). The chance of development is the chance that once discovered, an accumulation will be commercially developed.
9. The evaluation date for the Contingent and Prospective Resources stated within this document is 1 January 2010 and were calculated using a deterministic method. All Contingent and Prospective Resources indicated within Tables 1 and 2 are for a Gross 100% and Net 80% GLV interest in the TEA and are net of government royalties as these are yet to be negotiated with Perupetro.