



INVICTUS
ENERGY LIMITED

Mukuyu-1 drilling update – elevated gas shows and fluorescence confirms working hydrocarbon system

10 November 2022

HIGHLIGHTS

- Fluorescence and elevated gas shows of up to 65 times above background levels in Upper Angwa primary target
- Elevated gas shows and resistivity in shallower Pebbly Arkose formation
- Working conventional hydrocarbon system confirmed in Cabora Bassa Basin
- Preparing to drill ahead to planned total depth of 3,500 mMD

Invictus Energy Limited (“Invictus” or “the Company”) is pleased to provide an update on the Mukuyu-1 well that is currently being drilled in its 80% owned SG 4571 licence in Zimbabwe’s Cabora Bassa Basin.

Comments from Managing Director Scott Macmillan:

“Early indications in our Upper Angwa primary target are highly encouraging and have proven a conventional working hydrocarbon system in the Cabora Bassa Basin, which is an exciting development validating our subsurface model.”

“The presence of elevated mud gas readings, fluorescence in the cuttings, elevated LWD resistivity and increasing background gas with depth is a positive sign as we progress through the Upper Angwa Alternations Member.”

“We still have several hundred metres of drilling through our primary targets with additional potential, which will be followed by a comprehensive wireline logging programme to evaluate results, with the aim of confirming the presence of moveable hydrocarbons in multiple zones.”

Progress and current operations

Since the last update, the 8½” hole section has been drilled to a depth of 3,086 metres Measured Depth (“mMD”).

Elevated mud gas peaks (up to 65 times above background gas baseline) have been observed while drilling through a depth of 3,070 mMD with marked increases from C1 to C5 compounds (methane, ethane, propane, butanes and pentanes).

ABOUT INVICTUS ENERGY

Invictus Energy Ltd is an independent oil and gas exploration company focused on high impact energy resources in sub-Saharan Africa. Our asset portfolio consists of a highly prospective 360,000 hectares within the Cabora Bassa Basin in Zimbabwe. SG 4571 and EPOs 1848/49 contain the Mukuyu and multiple Basin Margin prospects

BOARD & MANAGEMENT

Dr Stuart Lake
Non-Executive Chairman

Joe Mutizwa
Non-Executive &
Deputy Chairman

Scott Macmillan
Managing Director

Gabriel Chiappini
Non-Executive Director
& Company Secretary

www.invictusenergy.com

For personal use only

An initial 100 per cent fluorescence was also observed in a downhole cuttings sample of sandstone, retrieved from a depth of approximately 3,070 mMD, indicating the presence of condensate or light oil when placed under an ultraviolet light (Figure 1).



Figure 1 - Cuttings sample from ~3070m MD showing fluorescence (50% following several hours from initial sampling) and residual ring

Logging While Drilling (LWD) analysis has identified further shallower zones of interest within the Upper Angwa, with elevated mud gas readings and LWD resistivity being observed.

Additional potential zones of interest in the Pebbly Arkose and Forest formations also display elevated LWD resistivity.

However, due to multiple equipment failures of the gas chromatograph systems, mud gas composition data is not available at depths shallower than approximately 2,820 mMD through the Dande, Forest and majority of the Pebbly Arkose horizons.

Increasing background gas with heavier hydrocarbon components has been observed with the increase in depth since the repair of the mud gas chromatograph system.

All zones of interest will be comprehensively evaluated through a planned wireline logging programme, which will take place once Mukuyu-1 reaches total depth and will allow for the identification of any potential hydrocarbon pay.

For personal use only

Drilling progress towards total depth has been slower than anticipated due to challenging conditions in the Pebbly Arkose, where several loss zones were encountered, requiring remedial action to stabilise drilling fluid losses.

Drilling conditions subsequently improved in the Upper Angwa formation prior to the failure of the stator in the downhole drilling motor.

This has necessitated the changeout of the downhole drilling motor before drilling can continue through the Upper Angwa formation towards a planned total depth of approximately 3,500 mMD.

Forward plan

Following the change out of the downhole motor and drill bit, the Exalo 202 Rig will recommence drilling through the primary targets in the 600 and 650 horizons (Upper Angwa Alternations Member) reaching approximately 3,500 mMD.

A comprehensive wireline logging evaluation suite is planned to be acquired across the entire 8½" hole section to provide detailed geological information in order to confirm the presence of moveable hydrocarbons.

Mukuyu-1 remains on track to be delivered in the previously guided timeframe.

Questions and enquiries

Investors

Scott Macmillan
MANAGING DIRECTOR

P. +61 (08) 6102 5055
E. info@invictusenergy.com

Media

Josh Lewis
SPOKE CORPORATE

P. +61 412 577 266
E. lewisj@spokecorporate.com

For personal use only

About Invictus Energy Ltd (ASX: IVZ)

Invictus Energy Ltd is an independent upstream oil and gas company listed on the Australian Securities Exchange (ASX: IVZ). The Company is headquartered in Perth, Australia and has offices in Harare, Zimbabwe. Invictus is opening one of the last untested large frontier rift basins in onshore Africa – the Cabora Bassa Basin – in northern Zimbabwe through a high impact exploration program.

The Company's principal asset is SG 4571 located in the Cabora Bassa Basin in Zimbabwe which contains the world class Mukuyu (Muzarabani) prospect – the largest undrilled prospect onshore Africa independently estimated to contain 20 Tcf and 845 million barrels of conventional gas condensate (gross mean unrisked basis). EPO 1849 contains the Basin Margin play with an estimated 1.2 billion barrels of oil (gross mean unrisked) across five drill ready prospect which will be tested by the Baobab-1 well.

Invictus Energy is committed to operating in a safe, ethical and responsible manner, respecting the environment, our staff, contractors and the communities in which we work.

***Cautionary Statement:** *The estimated quantities of petroleum that may be potentially recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation are required to determine the existence of a significant quantity of potentially movable hydrocarbons. Prospective Resource assessments in this release were estimated using probabilistic methods in accordance with SPE-PRMS standards.*

Not an offer in the United States: *This announcement has been prepared for publication in Australia and may not be released to US wire services or distributed in the United States. This announcement does not constitute an offer to sell, or a solicitation of an offer to buy, securities in the United States or any other jurisdiction. Any securities described in this announcement have not been, and will not be, registered under the US Securities Act of 1933 and may not be offered or sold in the United States except in transactions exempt from, or not subject to, the registration requirements of the US Securities Act and applicable US state securities laws.*

For personal use only