



INVICTUS  
ENERGY LIMITED

## Mukuyu-1 encounters additional elevated gas shows and fluorescence in primary target Upper Angwa formation

24 November 2022

### HIGHLIGHTS

- **Mukuyu-1 successfully deepened to 3,923 metres Measured Depth (“mMD”), encountering additional elevated gas shows and fluorescence through to total depth**
- **Results prove up potential of the Upper Angwa formation over a 900m gross interval**
- **Upper Angwa formation thicker than pre-drill estimates, boding well for future prospectivity in the Cabora Bassa Basin**
- **Mukuyu-1 to be sidetracked to complete evaluation**
- **Shareholder briefing to discuss preliminary well results and forward operations**

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:

*“The existing Mukuyu-1 wellbore was successfully deepened to 3,923mMD and continued to encounter multiple reservoir units with elevated gas shows and fluorescence until total depth (TD), proving up the potential of the Upper Angwa formation over a 900m gross interval.*

*“Our primary Upper Angwa target formation is thicker than anticipated from pre-drill estimates, which bodes well for future prospectivity in the basin.*

*“After reaching TD, the borehole was prepared to run wireline logs, however, due to a deterioration in borehole conditions, the tools were unable to pass below a depth of approximately 3,030mMD where the primary fluid sampling targets are located.*

*“Current borehole conditions make logging the existing hole section extremely risky with an increased likelihood of losing tools and not meeting the objectives of the well.*

*“As a result, the decision has been made to sidetrack<sup>^</sup> the Mukuyu-1 well in order to complete our evaluation and obtain a fluid sample.*

#### 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

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*"Results to date have been extremely encouraging and we plan to suspend the sidetrack well for future testing.*

*"We anticipate the remaining activities will require a further 12 to 18 days and we look forward to providing further updates in coming weeks."*

^Sidetracking is a regularly used oilfield practice where a secondary wellbore is drilled away from the original wellbore to bypass an unusable section of the well or explore a geological feature nearby. In the bypass case, the secondary wellbore is usually drilled substantially parallel to the original well. Mukuyu-1 ST-1 planned well path is shown below in Figure 1.

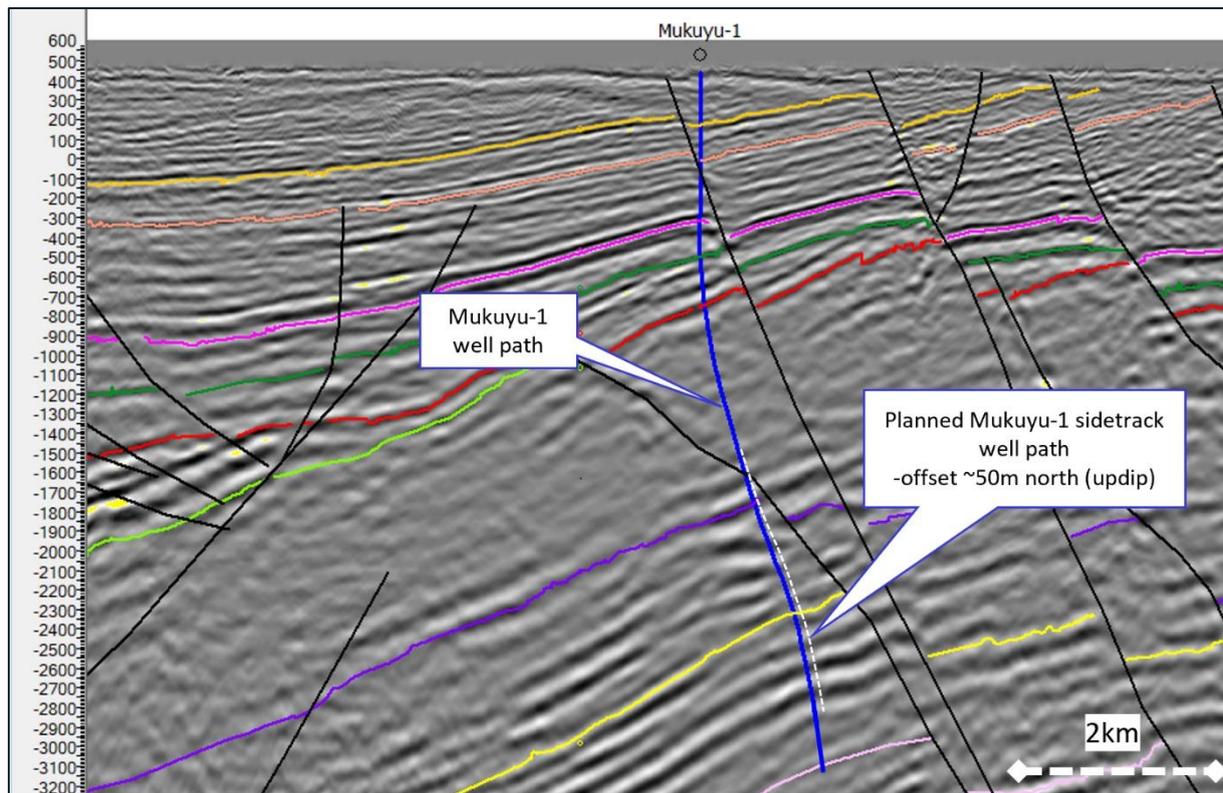


Figure 1 - Mukuyu-1 and proposed Mukuyu-1 sidetrack well trajectories

## Progress and current operations

Since the last update, the Mukuyu-1 well was successfully deepened to 3,923mMD where TD was called.

The well encountered additional reservoir zones displaying elevated gas shows and fluorescence to TD.

This proves up the potential over an approximately 900m gross interval within the Upper Angwa, which is thicker than pre-drill estimates.

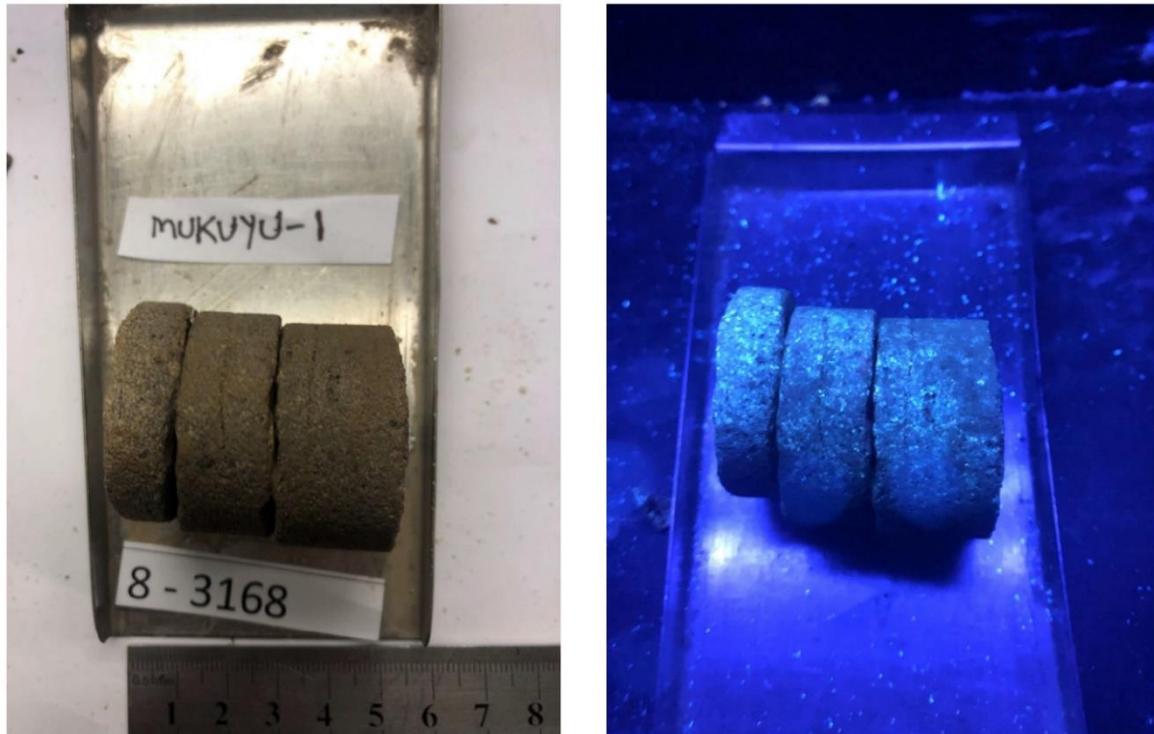


Figure 2 - Sidewall core obtained from 3,168mMD showing fluorescence – primary fluid sampling target

Following TD, the borehole was prepared for wireline logging, however the logging tools were unable to pass beyond a depth of 3,030mMD following several attempts. In addition, substantial amounts of overpull were required to free the tool from several points along the wellbore which is typically indicative of wellbore instability/breakdown.

Analysis shows borehole conditions have deteriorated over the last few days while waiting for the wireline formation testing tool to arrive. Further attempts to log the existing hole section is deemed to carry elevated risk of losing wireline tools and not fulfilling the objectives of the evaluation program to obtain a fluid sample.

Deterioration is likely due to heavy water-based mud utilised as a precaution during drilling, previous remedial action taken to stem the losses experienced in the Pebbly Arkose formation and the substantial length of time the current 8½" hole section has been open, which now exceeds 25 days.

An assessment determined plugging back the existing 8½" wellbore section and conducting a sidetrack from the 9⅝" casing shoe (at approximately 2,020mMD) would provide the Company the best opportunity of acquiring a valid fluid sample and the ability to suspend the well for future flow testing.

## Forward plan

Exalo Rig 202 is preparing to plug back the existing 8½" wellbore section to seal off hydrocarbon zones and leave the well in a safe state prior to and commencing the re-drill of the upper 8½" hole section to approximately 3,500mMD. This will provide sufficient information to calibrate the deeper sections of the original Mukuyu-1 wellbore.

The sidetrack well (Mukuyu-1 ST-1) will be drilled to a slight updip location to the north of Mukuyu-1, with a lower mud weight and solids content mud system (approximately 1,500psi reduction in overbalance), which will improve the logging conditions and chances of successfully obtaining a fluid sample.

Following conclusion of sidetrack drilling, the well will be logged, including wireline formation testing, with final results to be provided.

The Mukuyu-1 ST-1 well will then be suspended for potential future testing.

## Shareholder Briefing

A shareholder briefing will be conducted at 09:30 AEDT / 06:30 WST to discuss the results of the Mukuyu-1 well to date and the forward operations.

Details of the webinar are as follows:

**Presenters:** Managing Director Scott Macmillan (via Zoom)

**Time:** Thursday 24 November 2022 at 09:30 AEDT / 06:30 WST

**Where:** Zoom Webinar, details to be provided upon registration.

To register for the webinar please click through to the link:

[https://us02web.zoom.us/webinar/register/WN\\_fntpbGGrS2-8daGjRfSSUA](https://us02web.zoom.us/webinar/register/WN_fntpbGGrS2-8daGjRfSSUA)

**-Ends-**

**Approved for release by the Board**

## Questions and enquiries

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### 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 programme.*

*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.*

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