

11 January 2022

## **Anshof Exploration Well Update Operations Report No 4**

### **Key points:**

#### *Operations*

- The Anshof-3 exploration well reached a total depth (TD) of 2499m after drilling into crystalline basement in 8 ½ inch hole on the 6<sup>th</sup> of January 2022. Subsequent operations included hole conditioning and drilling a Rathole for electric wire line logging. Operations to overcome bore hole instability in a shallow section of the well have delayed logging activities.
- Current well operations include electric wireline logging to further evaluate oil and gas zones intersected in the well.
- The Anshof-3 exploration well is located in the ADX-AT-II license in Upper Austria (refer to figure 1) spudded on 18 December 2021 with the RED Drilling & Services GmbH (RED) E-200 rig. This report represents day 23 of drilling operations.

#### *Zones of interest observed while drilling*

- On the 5<sup>th</sup> of January 2022 ADX reported a 20m gross interval (shallow gas zone) with strong gas shows encountered in the imbricated (thrust) Miocene formations. A geologically similar shallow gas zone is producing in a nearby gas field.
- Also reported on the 5<sup>th</sup> of January 2022, a 9m gross oil interval was encountered with oil and gas shows at the primary Eocene oil target.
- A further 11m gross interval Cretaceous (Cenomanian) aged interval consisting of interbedded sand and shale with oil and gas shows has been encountered overlying crystalline basement formation prior to the well reaching TD.

#### *Notes:*

*An overview of the Anshof Prospect is available in Appendix 1 at the end of this release. It includes the results of an independent prospect review undertaken by RISC Advisory Pty Ltd (RISC).*

*ADX announced a farmout to ASX listed Xstate Resources Limited to fund 40% of the Anshof-3 well costs to earn a 20% participating interest in the Anshof Prospect. Refer to ASX release dated 22 November 2021.*

ADX Energy Ltd (**ASX Code: ADX**) is pleased to advise that the Anshof-3 well has reached a total depth 2499m in 8 ½ inch hole on 6<sup>th</sup> of January 2022. The final drill depth of the well is in crystalline basement allowing sufficient open hole at the bottom of the well (Rathole) to accommodate electric line logging operations enabling the evaluation of the deepest potential hydrocarbon bearing zones observed in the well.

Operations since the last report included the drilling of 8 ½ inch hole to the total depth of the well and conditioning the 8 ½ inch hole in preparation for electric line logging. Electric line logging operations have been delayed due to well bore instability which has required remedial hole conditioning including reaming and increasing mud weight prior to logging.

Current operations include electric line logging operations to evaluate the potential of oil and gas zones of interest observed while drilling the well.

### *Zones of interest observed while drilling*

On the 5<sup>th</sup> of January 2022, ADX advised the following preliminary results from Anshof-3 drilling data:

- a 9m gross interval with oil shows encountered at the primary Eocene oil target; and
- a 20m gross interval with potentially good reservoir quality encountered with strong gas shows within imbricated Miocene formations.

The abovementioned intervals exhibited hydrocarbon shows indicative of moveable hydrocarbons based on extensive experience within the basin. The Eocene oil reservoir and other geological markers such as Top Oligocene and Top Cretaceous have been encountered as predicted, further confirming the presence of a large structure as mapped predrill on 3D seismic.

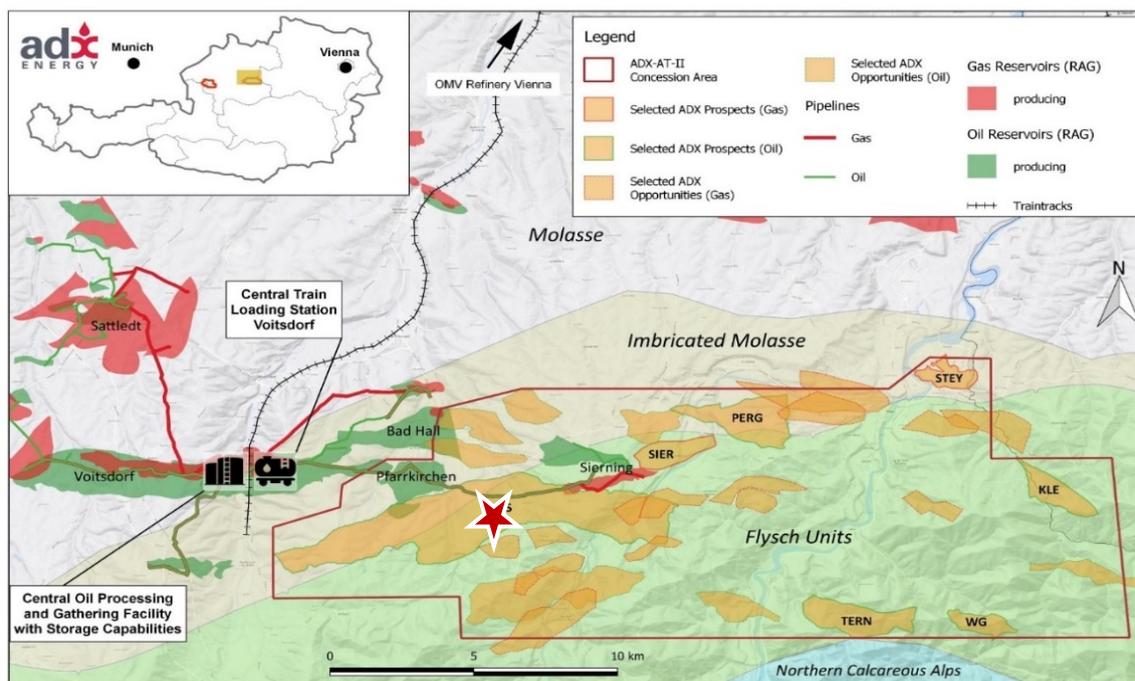
During subsequent drilling operations in 8 ½ inch hole a further 11 meters of gross Cenomanian aged reservoir interval consisting of interbedded sand and shale with oil and gas shows was intersected by the well overlying crystalline basement. Cenomanian aged reservoirs are of variable quality in the area however it is an excellent producing interval in several nearby fields.

### *Future operations*

Current operations are electric line logging of 8 ½ inch hole from a depth of 331m to TD in the crystalline basement of approximately 2499m to determine the productive potential of the intersected reservoirs and confirm the likelihood of moveable hydrocarbons across the various zones of interest.

### *Further Updates of Operations and Well Results*

Wireline logging data and preliminary interpretation of the data are expected to be available during this week.



**Figure 1: Map showing the Anshof prospect (star symbol) in relation to existing producing oil fields (green), follow up prospects (yellow) in the ADX AT-II license as well as nearby processing facilities and pipelines in ADX-AT-II exploration license**

**For further details please contact:**

Paul Fink

Chief Executive Officer

+61 (08) 9381 4266

[paul.fink@adx-energy.com](mailto:paul.fink@adx-energy.com)

Ian Tchacos

Executive Chairman

+61 (08) 9381 4266

[ian.tchacos@adxenergy.com.au](mailto:ian.tchacos@adxenergy.com.au)

**Authorised for lodgement by Ian Tchacos, Executive Chairman**

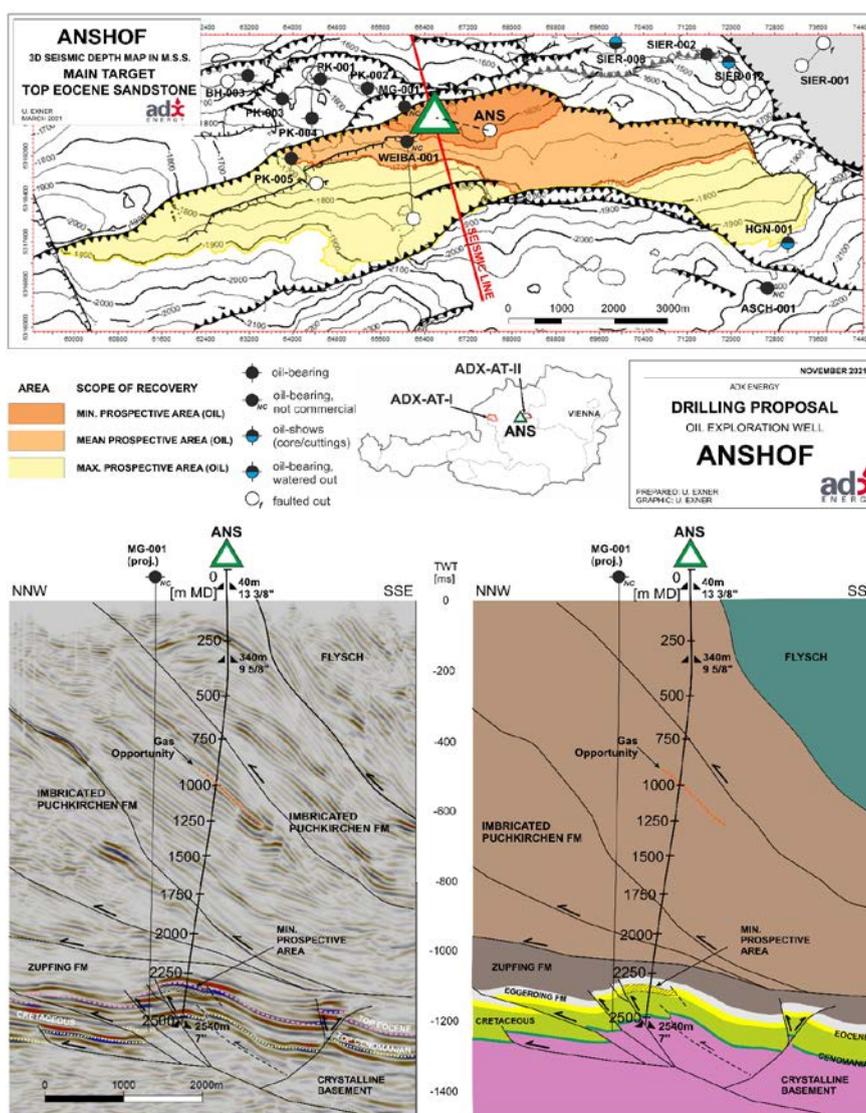
**Persons compiling information about Hydrocarbons:**

Pursuant to the requirements of the ASX Listing Rule 5.31, 5.41 and 5.42 the technical and reserves information relating to Austria contained in this release has been reviewed by Paul Fink as part of the due diligence process on behalf of ADX. Mr. Fink is Technical Director of ADX Energy Ltd is a qualified geophysicist with 23 years of technical, commercial and management experience in exploration for, appraisal and development of oil and gas resources. Mr. Fink has reviewed the results, procedures and data contained in this release and considers the resource estimates to be fairly represented. Mr. Fink has consented to the inclusion of this information in the form and context in which it appears. Mr. Fink is a member of the EAGE (European Association of Geoscientists & Engineers) and FIDIC (Federation of Consulting Engineers).

## Appendix 1: Anshof Prospect Overview

Anshof is a well defined modern 3D seismic covered Eocene - Cenomanian prospect located up-dip and on trend from existing oil production from adjacent fields (Figure A1). The ADX in house team has developed a new structural model constraining the nearby producing Voitsdorf, Bad Hall and Pfarrkirchen oil fields which has resulted in identification of a number of on trend prospects and appraisal opportunities. Success at Anshof-3 will validate the new structural model and de-risk multiple follow up prospects. Anshof-3 has a best technical case prospective resource potential of 6.6 MMBOE with significant upside potential in the primary Eocene sandstone reservoir objective. The well plan includes a deeper Cenomanian secondary target with a best technical resource potential of 2.1 MMBOE.

*Original Resources Reporting Date: Upper Austria Exploration was on 30/11/2020, estimates were further revised on 30/3/21.*



**Figure A1: Anshof prospect Eocene depth map, seismic cross section and schematic interpretation (mentioned anti clockwise)**

ADX commissioned RISC to provide an independent review of the prospectivity of the Austrian ADX-AT-I & II exploration licenses. RISC has reviewed the resources in accordance with the Society of Petroleum Engineers internationally recognised Petroleum Resources Management System 2018 (PRMS). RISC’s methodology was to review the evaluation, probabilistic resource evaluation and geologic risking carried out by ADX. Details of the findings of their review were presented in a report. RISC have not conducted a site visit.

RISC has reviewed the Anshof Prospect and found the following Prospective Resource and Geological Risk assessment to be reasonable. A summary of RISC’s findings for the Anshof prospect is shown in the Table 1 below. Refer also to ASX release 10 November 2021.

**Table 1: Anshof Prospective Resource and Geological Risk Assessment**

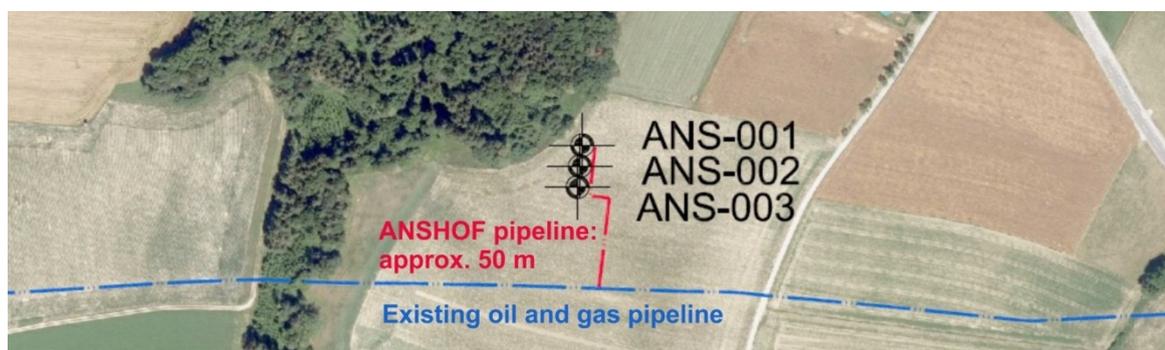
(100% Equity Interest)					
Unrisked Prospective Resource <sup>1</sup>	P(90) <sup>2</sup> (MMBOE)	P(50) <sup>3</sup> (MMBOE)	P(10) <sup>4</sup> (MMBOE)	Mean <sup>5</sup> (MMBOE) <sup>6</sup>	Probability of Success
Oil Case	0.50	3.30	16.20	6.60	43%

**Notes to Table 1:**

1. Prospective Resources are those estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) related to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further explorations appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.
2. At least a 90% probability that the quantities actually recovered will equal or exceed the estimate.
3. At least a 50% probability that the quantities actually recovered will equal or exceed the estimate.
4. At least a 10% probability that the quantities actually recovered will equal or exceed the estimate.
5. The arithmetic average of the probability distribution.
6. BOE means barrels of oil equivalent

In RISC’s opinion, the method of utilising a mapping based net-rock-volume (NRV) in the prospective resource assessment in the Anshof Prospect may result in a conservative volumetric assessment. RISC was not provided with an assessment of the deeper Cenomanian secondary objective for Anshof.

**Access to Production Infrastructure**



**Figure A2: Aerial image prior to commencement of well site preparation showing the three Anshof surface locations and the distance to an existing oil and gas pipeline bundle that can be used to access oil and gas processing and export infrastructure**

Approvals have been received from the regulatory authority for up to three drilling locations from the Anshof well site. The Anshof-3 Well location is approximately 50 metres from an oil and gas pipeline bundle which can be accessed to process and export crude.

On the 22<sup>nd</sup> of November 2020 ADX announced the agreement with RAG Exploration & Production GmbH (RAG E&P) of commercial terms for the access of future oil and gas production from ADX Upper Austria exploration and appraisal licenses in Upper Austria which surround producing fields and infrastructure operated by RAG E&P. The agreement enables the reduction of capital expenditures and the time taken from drilling to commercial production due to the ability to tie into RAG E&P's existing hydrocarbon gathering, processing and storage facilities which are connected to Austria's oil and gas infrastructure network.

### **Reporting Standards**

Reserves and resources are reported in accordance with the definitions of reserves, contingent resources and prospective resources and guidelines set out in the Petroleum Resources Management System (PRMS) prepared by the Oil and Gas Reserves Committee of the Society of Petroleum Engineers (SPE) and reviewed and jointly sponsored by the American Association of Petroleum Geologists (AAPG), World Petroleum Council (WPC), Society of Petroleum Evaluation Engineers (SPEE), Society of Exploration Geophysicists (SEG), Society of Petrophysicists and Well Log Analysts (SPWLA) and European Association of Geoscientists and Engineers (EAGE), revised June 2018.

### **RISC Independence**

RISC has no pecuniary interest, other than to the extent of the professional fees receivable for the preparation of this report, or other interest in the assets evaluated, that could reasonably be regarded as affecting our ability to give an unbiased view of these assets. RISC makes the following disclosures:

- RISC is independent with respect to ADX and confirms that there is no conflict of interest with any party involved in the assignment;
- under the terms of engagement between RISC and ADX, RISC will receive a time-based fee, with no part of the fee contingent on the conclusions reached, or the content or future use of this report. Except for these fees, RISC has not received and will not receive any pecuniary or other benefit whether direct or indirect for or in connection with the preparation of this report; and
- neither RISC Directors nor any staff involved in the preparation of this report have any material interest in ADX or in any of the properties described herein.

### **About RISC**

RISC is an independent advisory firm offering the highest level of technical and commercial advice to a broad range of clients in the energy industries, worldwide. RISC has offices in London, Perth, Brisbane and South-East Asia and has completed assignments in more than 90 countries for over 500 clients and have grown to become an international energy advisor of choice.

**End of this Release**