

**Yumna Field, Block 50**  
**Update of**  
**Independent Reserves Audit Summary**

**5 March 2021**

***Confidential***

This summary Qualified Person's Report ("QPR") has been prepared by the Rex International Holding Group's in-house qualified person, Lars B. Hübert, CEO and Exploration Manager of Lime Petroleum AS located at Drammensveien 145A, N-0277 Oslo, Norway, and has been prepared in accordance with the applicable requirements in Practice Note 4C of the Singapore Exchange Securities Trading Limited's Listing Manual Section B: Rules of Catalist.

Lars B. Hübert has over 25 years of technical, managerial, and financial experience in the oil industry. He holds a BSc Geology from the University of Oslo, Norway, an MSc Geology from the University of Wyoming, USA and an MBA from the Heriot Watt University, Scotland. He is a member of the American Association of Petroleum Geologists and the Society of Petroleum Engineers.



Lars B. Hübert  
London, 5 March 2021

### **Confidentiality and Disclaimer Statement**

This document is confidential and has been prepared for the exclusive use of Masirah Oil Ltd and its parent company Rex International Holding Limited. No person or company other than those for whom it is intended may directly or indirectly rely upon its contents. The author is acting in an advisory capacity only and, to the fullest extent permitted by law, disclaim all liability for actions or losses derived from any actual or purported reliance on this document or any related statements or opinions thereof by Masirah Oil Ltd or by any other person or entity.

# Contents

|                                 |   |
|---------------------------------|---|
| <b>Summary</b> .....            | 3 |
| <b>Background</b> .....         | 4 |
| <b>Technical review</b> .....   | 5 |
| <b>Remaining Reserves</b> ..... | 6 |
| <b>Way forward</b> .....        | 6 |
| <b>References</b> .....         | 7 |
| <b>Glossary</b> .....           | 7 |

## Summary

RPS Energy Consultants Ltd (“RPS”) prepared an independent QPR for the Yumna Field in Oman for Masirah Oil Ltd (“MOL” or the “Company”) dated 26 October 2020 (“RPS QPR”). This summary QPR provides an update to the RPS QPR and is prepared in line with the standards set out under the Petroleum Resource Management System (“PRMS”) to include production from the Yumna 1 well until 31 December 2020, in the Yumna Field. The RPS QPR thus provides the basis for the report, along with production data provided by MOL. It is understood that MOL is working on revising the reservoir characterisation and an updated Yumna Field volumetrics may be presented at a later phase.

The Yumna discovery was made in the GA South 1 well which was spudded in December 2013. The well tested a NE-trending fault-block in the Cretaceous and PreCambrian. The well encountered hydrocarbons in the Campanian Lower Aruma Sandstone Formation. The well was tested and flowed oil at a maximum rate of 3,481 stb/d. The oil density was light with 42° API. The first development well, Yumna 1, was spudded in December 2019 and completed in February 2020. The well was put on test production from the drilling rig, producing via a flexible flowline to a tanker moored some 500 metres away. In April 2020, the production was transferred to a Mobile Offshore Production Unit (MOPU). Production continued throughout 2020 from Yumna 1. In December 2020, MOL commenced drilling operations with the Shelf Drilling Tenacious jack-up rig, to add on to the Yumna 2 and Yumna 3 production wells. Yumna 2 was spudded on 10 December 2020 and was put on production on 23 January 2021. The well started production at a rate of 9,000 stb/d of oil. The rate was constrained by the size of the down-hole Electrical Submersible Pump installed in the well. Yumna 3 was spudded on 20 January 2021 and production commenced on 18 February 2021 at a rate of 12,984 stb/d of oil on natural flow through an 80/64” choke.

The plan forward is to produce from the three wells whilst continuously optimising the production rates.

In view of the field depletion through production since the publication of the RPS QPR in 2020, an update of the remaining reserve estimate is prudent. The STOIIP (stock tank oil initially in place) remains unchanged for this update. Production from the Yumna 2 and Yumna 3 wells over the next several months may warrant a re-examination of the overall STOIIP. However, at this point, it is premature to reassess STOIIP. The reserves presented herein are therefore based on the same assumptions for economic cut-off as the RPS QPR.

As of 31 December 2020, the Yumna Field had produced 2.12 MMstb. Based on the recoverable reserve estimate from the RPS QPR, the remaining reserves are presented in Table 1.

Table 1: Yumna Field Summary of Oil Reserves as of 31 December 2020

| Category        | Gross Attributable to Licence (MMstb) <sup>1,2</sup> | MOL Net Entitlement Volume <sup>2,3</sup> |                                     |                               | Risk Factors <sup>6</sup> | Remarks                  |
|-----------------|--|---|-------------------------------------|-------------------------------|---------------------------|--------------------------|
|                 |  | Previous Report (MMstb) <sup>4</sup>      | Current Report (MMstb) <sup>5</sup> | % Change from Previous Update |                           |                          |
| <b>Reserves</b> |  |   |                                     |                               |                           |                          |
| <b>Low 1P</b>   | 3.4  | 2.8                                       | 2.1                                 | -25%                          | N/A                       | Change due to production |
| <b>Base 2P</b>  | 8.6  | 6.1                                       | 5.4                                 | -11%                          | N/A                       | Change due to production |
| <b>High 3P</b>  | 13.5   | 9.2                                       | 8.5                                 | -8%                           | N/A                       | Change due to production |

1. Gross field Reserves (100% basis) after economic limit test as of 31 December 2020

2. Economic cut off year for the 1P, 2P and 3P reserves in 2023, 2027 and 2029, respectively

3. Company net entitlement Reserves after economic limit test

4. Volume as at 1 July 2020 (RPS QPR dated 26 October 2020)

5. Volume after subtraction of net entitlement production of 0.70 MMstb gross from 1 July 2020 until 31 December 2020

6. No risk is applied to Reserves

## Background

This summary QPR aims to provide updated estimates on remaining reserves of the Yumna Field as at 31 December 2020. This summary QPR is based on the independent QPR done by RPS and issued on 26 October 2020, which presented the reserves in the Yumna Field as at 1 July 2020.

Current ownership of MOL includes Rex International Holding Ltd (86.37%), Schroder & Co Banque S.A. (8.82%), PETROCI (the National Oil Company of Côte D'Ivoire) (1.83%), and other shareholders including MOL management (2.98%).

Table 2 gives a detailed description of the asset.

Table 2: Yumna Field detailed description

| Asset name/<br>Country   | MOL interest (%) | Development Status      | Licence expiry date                        | Licence Area   | Type of mineral, oil or gas deposit | Remarks |
|--------------------------|------------------|-------------------------|--|----------------|-------------------------------------|---------|
| <b>Yumna Field, Oman</b> | 100 %            | Developed and producing | 12 July 2030 or until the field waters out | Block 50, Oman | Oil Field                           | N/A     |

The Yumna Field lies within the Block 50 licence located on the eastern coast of the Sultanate of Oman (Figure 1), in a water depth of some 30 metres. The licence is owned and operated by MOL. The Yumna Field is the first discovery in Block 50 Oman and is located in the Masirah Graben geological feature. Further prospects are being evaluated within the licence area. The principal terms and conditions for the concession are discussed in detail in the RPS QPR, including fiscal conditions, environmental and rehabilitation requirements, abandonment costs and consents, and there have been no changes since.

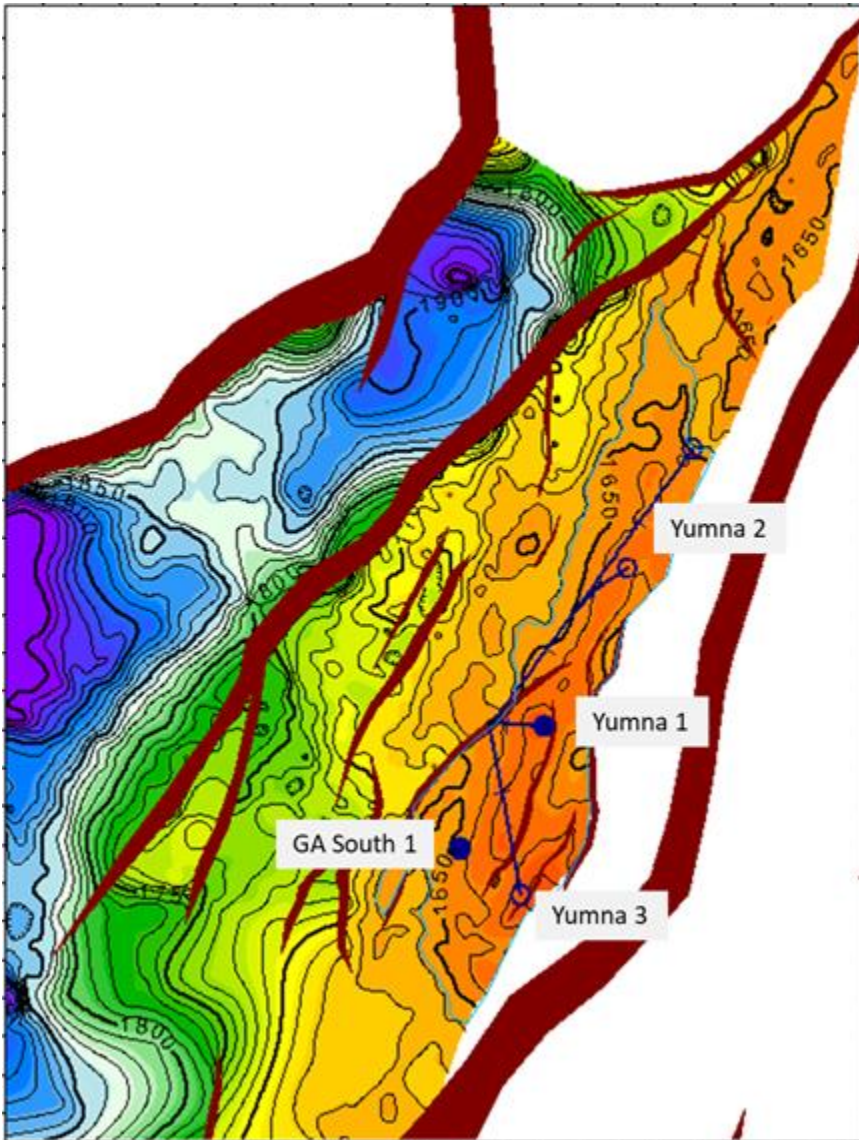


Figure 1: Map of the Yumna Field showing the producing well locations as well as the GA South 1 discovery well.

## Technical review

The RPS QPR dated 26 October 2020 has given a brief overview of the geological setting and history of the licence and hence, such information is not repeated here. The RPS QPR details the reserves as at 1 July 2020 and this report accounts for the six months of production for the period from 1 July 2020 to 31 December 2020.

The first of the development wells, Yumna 1, was spudded by MOL in December 2019 and reached its target depth in January 2020, discovering oil in several sands. The well tested the Lower Aruma sandstone and yielded a production rate of 11,843 stb/d, through a 1-inch choke with the extended testing flowing at a sustained commercial rate of 10,000 stb/d to surface. The well was placed onto an extended test until the end of April 2020 when production was moved to permanent facilities, which included a mobile offshore production unit (MOPU) and an Aframax storage tanker with a capacity of 700,000 bbls. Until 1 July 2020, the Yumna Field had produced in excess of 1.05 MMstb.

Yumna 2 was spudded on 10 December 2020. The well was drilled directionally some 1,700 metres to the north-north-east to a location close to the eastern bounding fault of the field. The well found the Lower Aruma reservoir slightly deeper than mapped, and the Lower Aruma sandstone reservoir was oil saturated. Due to wellbore stability issues while running the casing, it was decided to sidetrack the well 700 metres closer to the surface location, where the Lower Aruma sandstone reservoir was encountered roughly at the predicted depth. The well encountered an oil saturated reservoir with net thickness of 10 metres and average porosity of 21%. The completion of the well included running an electrical submersible pump. The well was put on production on 23 January 2021 and produced through the pump at a stabilised rate of 9,000 stb/d.

Yumna 3 was spudded on 20 January 2021. The well was drilled directionally some 950 metres to the south-southeast targeting a structurally high location close to the bounding fault on the south eastern side of the field. The well encountered the Lower Aruma sandstone as predicted, finding 10.4 metres of oil saturated sandstone. The average porosity is very good, at 23.4 per cent. The well was put on production on 18 February 2021 and tested at a rate of 12,984 stb/d. Sustained production rates are some 15% below the test rate.

Based on well log data from the new penetrations of the reservoir, the reservoir properties (porosity and permeability) appear to be in line, or slightly better than predicted. The reservoir thickness is roughly as predicted. However, a thinning trend to the north has been observed. The reservoir looks to be slightly deeper in the far northern reaches of the Yumna structure.

The reservoir pressure depletion over the first year of production has been on the order of 100 psi, demonstrating an average high permeability of around 2,000 md, and suggesting pressure support from a strong natural aquifer.

In order to accommodate higher production rates to the MOPU, MOL is in the process of upgrading the maximum liquid processing capacity to handle up to 30,000 bpd. This is expected to be completed by the end of the first quarter of 2021.

## **Remaining Reserves**

The remaining Yumna Field reserves are estimated based on the reservoir model presented in the RPS QPR, which carried reserves numbers with production up to 1 July 2020. As at 31 December 2020, 2.12 MMstb of oil had been produced from the Yumna Field, with the addition of 1.07 MMstb of oil being produced from the Yumna Field since 1 July 2020. This volume has been subtracted for each of the three cases (Low, Base, High) on a gross basis attributable to the licence, and on a net entitlement basis to MOL, 0.70 MMstb has been subtracted for each of the three cases (Low, Base, High) since 1 July 2020. The MOL net entitlement basis is found by RPS after an economic limit test, with economic cut-off year for Low, Base, and High case at 2023, 2027, and 2029 respectively. The remaining reserves are presented in Table 1 above.

## **Way forward**

Given the new data from the wells, there is scope for revisiting the seismic interpretation, and the mapping of the Yumna structure. Updated maps along with production data from the wells will allow for updating of the reservoir model, and thus for the reserve prediction. This work by MOL is presently ongoing.

## References

**RPS Group PLC, 26 October 2020:** “INDEPENDENT RESERVES AUDIT OF THE YUMNA FIELD AND EVALUATION OF PROSPECTIVE RESOURCES, BLOCK 50, OFFSHORE OMAN”, commissioned to Masirah Oil Limited, 85 pages

[https://investor.rexih.com/newsroom/20201027\\_224719\\_5WH\\_H69MKT98A9OTP4S7.3.pdf](https://investor.rexih.com/newsroom/20201027_224719_5WH_H69MKT98A9OTP4S7.3.pdf)

### Recent announcements by Rex related to MOL:

17 Feb 2020: Rex’s subsidiary achieves successful oil flow from Yumna 1 well in Oman

[https://investor.rexih.com/newsroom/20200217\\_RIH\\_PressRelease\\_OmanOilFlow\\_Final.pdf](https://investor.rexih.com/newsroom/20200217_RIH_PressRelease_OmanOilFlow_Final.pdf)

17 July 2020: Rex update: Major milestone achieved in Oman and well in Norway to be drilled in late August 2020

[https://investor.rexih.com/newsroom/20200717\\_071116\\_5WH\\_2Z22ME3NPNB0WUTP.1.pdf](https://investor.rexih.com/newsroom/20200717_071116_5WH_2Z22ME3NPNB0WUTP.1.pdf)

13 Aug 2020: Oman oil production a game changing start for Rex in 1H FY2020

[https://investor.rexih.com/newsroom/20200813\\_201824\\_5WH\\_3LRMXEEUGVMJ6UH8.1.pdf](https://investor.rexih.com/newsroom/20200813_201824_5WH_3LRMXEEUGVMJ6UH8.1.pdf)

14 Dec 2020: Rex’s subsidiary spuds Yumna 2 development well in Block 50 Oman

[https://investor.rexih.com/newsroom/20201214\\_183502\\_5WH\\_G25BUQXGLKSNKBEH.1.pdf](https://investor.rexih.com/newsroom/20201214_183502_5WH_G25BUQXGLKSNKBEH.1.pdf)

1 February 2021: Rex’s subsidiary starts production at Yumna 2 well in Block 50 Oman

[https://investor.rexih.com/newsroom/20210201\\_072702\\_5WH\\_66LFIQ6SFUSV4EX3.1.pdf](https://investor.rexih.com/newsroom/20210201_072702_5WH_66LFIQ6SFUSV4EX3.1.pdf)

22 February 2021: Rex’s subsidiary starts production at Yumna 3 well in Block 50 Oman

[https://investor.rexih.com/newsroom/20210222\\_174836\\_5WH\\_RHBZ9INNOO6PCNC2.1.pdf](https://investor.rexih.com/newsroom/20210222_174836_5WH_RHBZ9INNOO6PCNC2.1.pdf)

## Glossary

|        |  |
|--------|--|
| bbls   | barrels  |
| bpd    | barrels per day                                |
| md     | millidarcy (unit of rock permeability)         |
| MMstb  | million stock tank barrels                     |
| psi    | pound-force per square inch (unit of pressure) |
| stb/d  | stock tank barrels of oil per day              |
| STOIIP | stock tank oil-initially-in-place              |