



**UNLOCKING**

**EUROPEAN OIL & GAS RESOURCES**

**FEBRUARY 2020**

## Forward Looking Statements

This document has been prepared by Ansila Energy NL ("Ansila"). This document contains certain statements which may constitute "forward-looking statements". It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including, but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve and resource estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delays or advancements, approvals and cost estimates.

Ansila's operations and activities are subject to regulatory and other approvals and their timing and order may also be affected by weather, availability of equipment and materials and land access arrangements. Although Ansila believes that the expectations raised in this document are reasonable there can be no certainty that the events or operations described in this document will occur in the timeframe or order presented or at all.

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## Qualified Person's Statement

As an Australian public company with securities listed on the ASX, the oil and gas reserves and resource estimates in this presentation are prepared in accordance with the PRMS and ASX Listing Rule reporting guidelines.

The reserves and resources information of Ansila in this document is based on, and fairly represents, information and supporting documentation prepared by, under the supervision of, or reviewed by Mr Christopher Lewis (Technical Director). Volume estimates in this presentation are from the Netherland, Sewell Associates, Inc report entitled "Estimates of Reserves and Future Revenue and Contingent Resources and Cash Flow to the Gemini Resources Ltd Interest and Gross 100 Prospective Resources in Certain Oil Gas Properties located in the Nowa Sol and Gora Concessions Permian Basin, Onshore Poland as of May 1 2019 and were first reported to the ASX on 4 July 2019. Contingent and prospective resources reported herein have been prepared using a combination of deterministic and probabilistic methods.

Mr Lewis is a Director of Ansila Energy and has a BSc from the Imperial College, University of London and is a member of the American Association of Petroleum Geologists (AAPG) and the European Association of Geoscientists and Engineers (EAGE). The reserve and resource information is consistent with the definitions of proved, probable, and possible hydrocarbon reserves and resources that appear in the ASX Listing Rules. Mr Lewis is qualified in accordance with ASX Listing Rule 5.41 and consents to the inclusion of the Ansila reserves and resources figures in the form and context in which they appear in this presentation.

## Corporate Information

This presentation is dated 3 February 2020 and is authorised to be given to ASX by the Board of Directors of Ansila The address of Ansila is Level 1 89 St George's Terrace Perth WA 6000 and its website is [www.ansilaenergy.com.au](http://www.ansilaenergy.com.au). Shareholders, investors and other interest parties can contact Nathan Lude, Executive Director, on 61 8 9226 2011 or at [info@ansilaenergy.com.au](mailto:info@ansilaenergy.com.au).



- Siciny-2 appraisal programme (Gas Resource: **1.6 Tcf\*** 2C contingent resources) **nearing completion**
  - Transient pressure build-up test underway
  - Post-operational analysis of well data in process
- Strategy to exploit the **conventional gas** potential across Gora licence underway
  - **209 Bcf** of additional **conventional** prospective resources\* identified with an average **CoS of 28%**
  - Purchased reprocessed 3D dataset over part of Gora licence adjacent to **proven Rawicz field** (2P reserves 94 Bcf – Palomar Natural Resources)
  - Option to reprocess 3D seismic data over Siciny and/or **flow test** Rotliegendes interval in Siciny-2 well
- **Jany-C1** appraisal programme scheduled for **Q2 2020**
  - Confirm the flow rate and commerciality of the Jany-C1 (Oil) discovery well
  - Fracture stimulation and flow testing of unconventional **Zechstein Dolomite**
  - Independently assessed 2C contingent resources of **36 MMbbls** of oil (**CoS 28%\***)
- New Ventures
  - Focus on **low risk, low entry cost, near-term** European assets
  - Strategic investment in a private **UK North Sea Vehicle**<sup>†</sup> with two applications submitted in UK 32<sup>nd</sup> Seaward Licensing Round

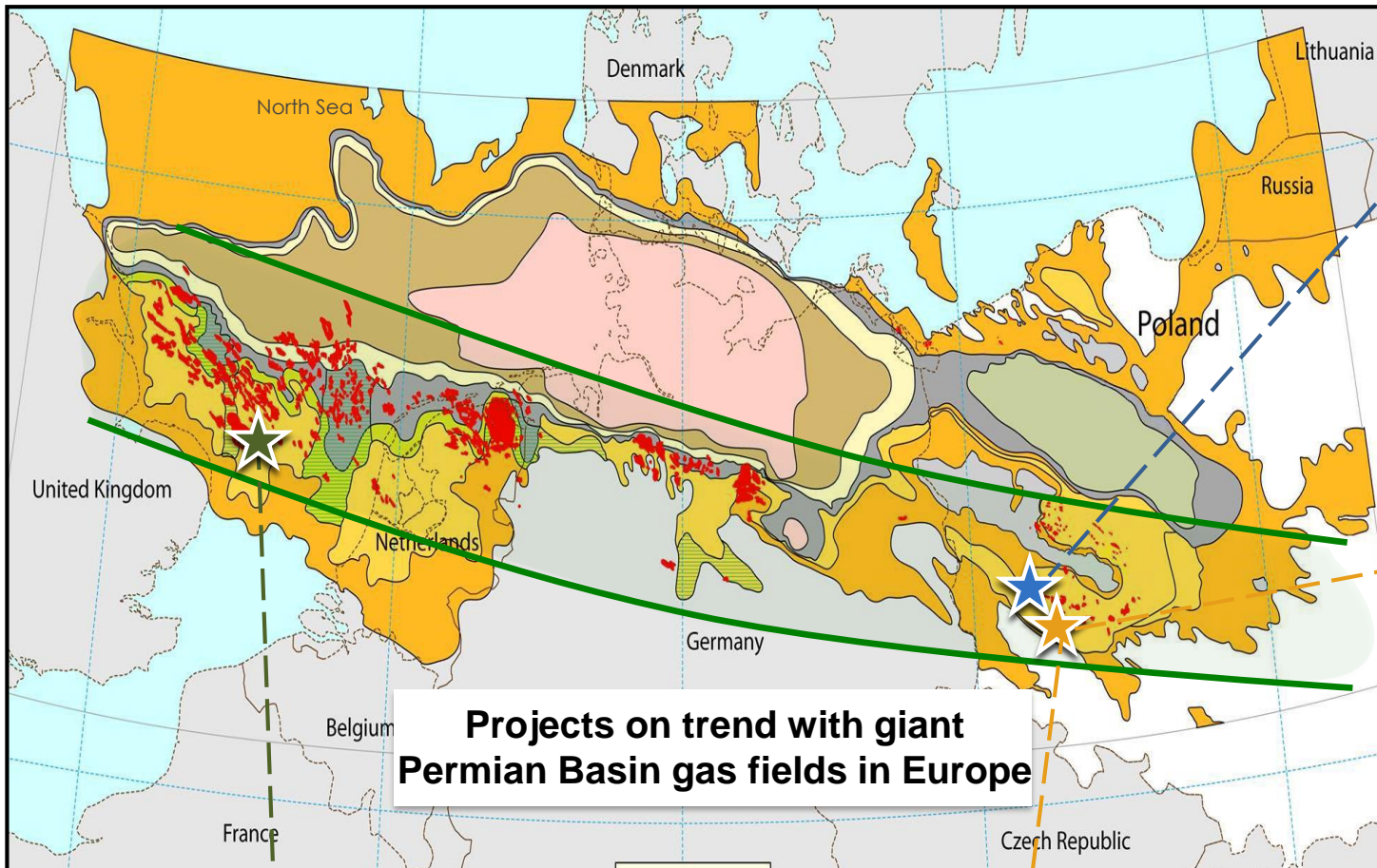


**Photo:** On location at Siciny-2 wellsite

\* Volume estimates in this presentation are from Netherland, Sewell & Associates, Inc, report entitled "Estimates of Reserves and Future Revenue and Contingent Resources and Cash Flow to the Gemini Resources Ltd Interest and Gross (100%) Prospective Resources in Certain Oil & Gas Properties located in the Nowa Sol and Gora Concessions Permian Basin, Onshore Poland as of May 1, 2019" (Report or CPR). The % CoS in the presentation has been estimated by Ansila's Management.

<sup>†</sup> See disclosures in the Company's Entitlement Issue Prospectus dated 10 September 2019, FY19 Annual Report released on 25 September 2019 and Quarterly Report released on 30 October 2019.

# EUROPEAN ONSHORE FOCUS AND PROJECTS



Map source: USGS

**Projects on trend with giant Permian Basin gas fields in Europe**

## NOWA SOL

- Ansila: 35%
- Jany-C1 well
- Area: 1,165 km<sup>2</sup>
- Oil Resource: **36MMbbls**  
2C contingent resources\*
- Resource Potential: **400MMbbls**<sup>†</sup>

## GORA (Unconventional)

- Ansila: 35%
- Siciny-2 well
- Area: 693 km<sup>2</sup>
- Gas Resource: **1.6 Tcf**  
2C contingent resources\*
- Resource Potential: **9 Tcf**<sup>†</sup>

## UK North Sea Vehicle

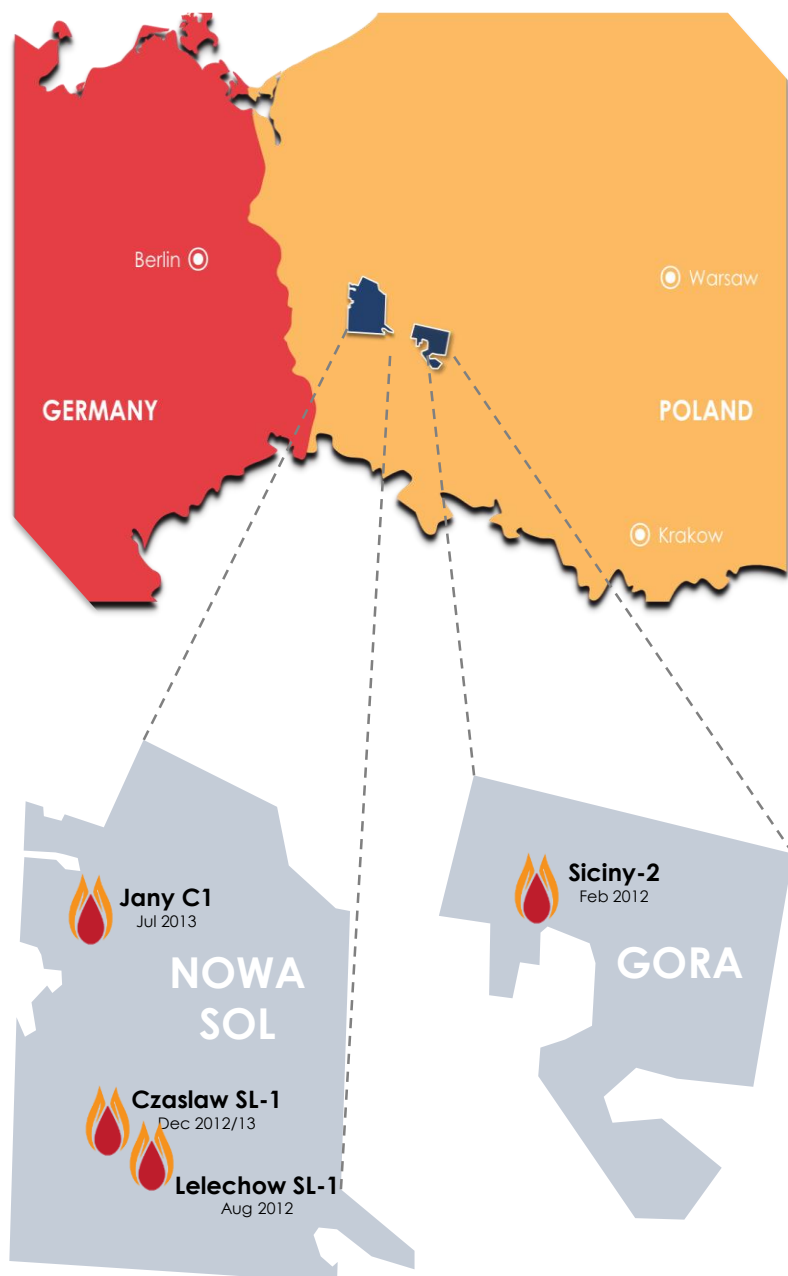
- Ansila: Major Shareholder
- Application: **Seven Blocks**
- Multiple fields and resources
- OGA Award Results: Mid-2020

## GORA (Conventional)

- Ansila: 35%
- Rotliegendes interval
- Prospective Resources: **209 Bcf**\*
- CoS range: **24% to 42%**\*

\* Netherland Sewell & Associates Report (CPR) – 1 May 2019

† Gemini Resources management estimates



- **35% interest** in the Nowa Sol and Gora projects in the prolific Polish Permian Basin†
- Both licenses have recent discoveries and **multi-Tcf/MMbbls** potential
- Surrounded by Poland's largest gas fields with over **100 discoveries** in the area
- Netherland Sewell's CPR estimate a **large, single well 2C contingent resource** potential:
  - **Siciny-2: 1.6 Tcf** \*2C contingent resources (unconventional gas)
  - **Jany-C1: 36 MMbbls\*** 2C contingent resources (unconventional oil)
- **209 Bcf\*** of conventional prospects identified in the Rotliegendes
- Additional 3D seismic acquisition/reprocessing likely to develop conventional prospectivity further
- Low onshore drilling costs for additional wells
- Prime location with nearby infrastructure, refineries and services, 500m from gas pipeline
- Robust average gas pricing (>US\$6 per mscf) and favourable fiscal regime

†Farm-in excludes working interest in the Czaslaw SL-1 and Lelechow SL-1 wells

\* Netherland Sewell & Associates Report (CPR) – 1 May 2019

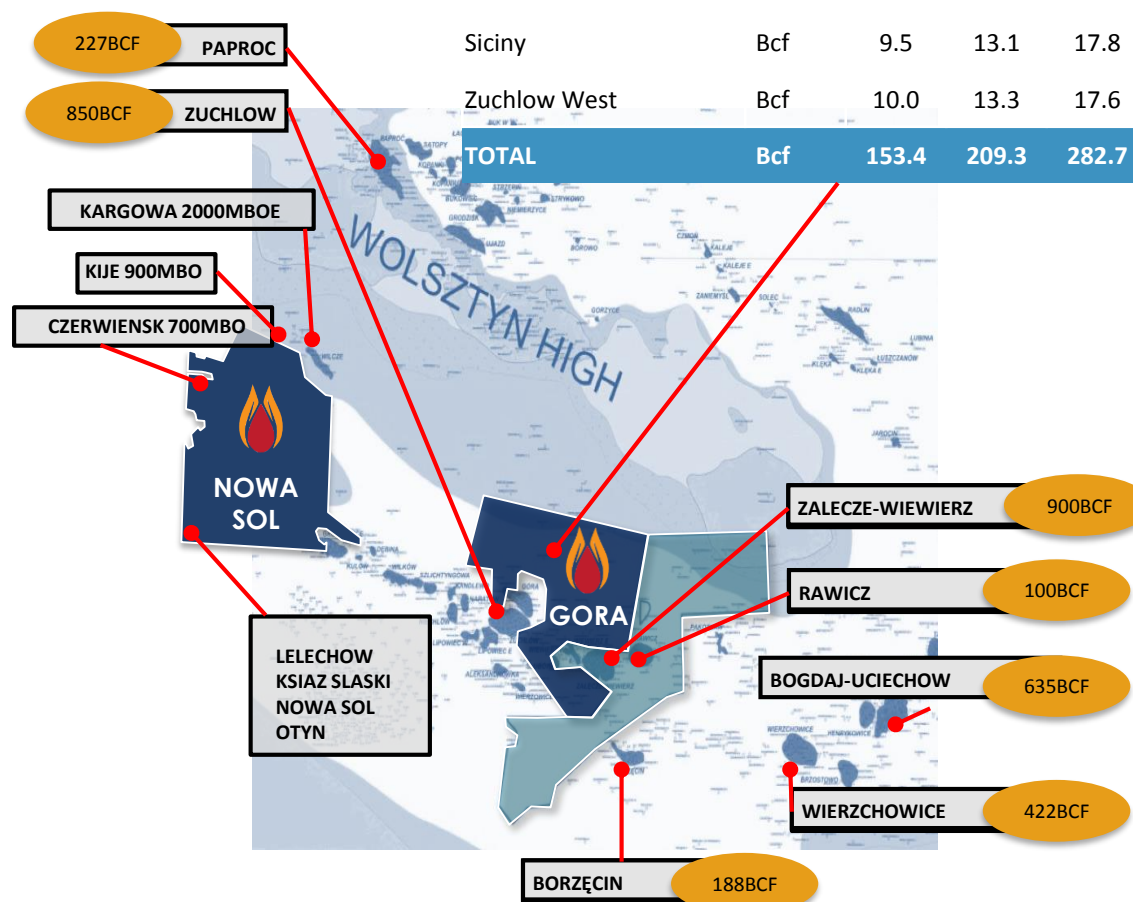


- Siciny-2 appraisal **on schedule and within A\$3.9 million budget**
- Successful fracture stimulation of Carboniferous interval
- Confirmation of hydrocarbon gas in Carboniferous reservoir
- Free gas (methane) detected at surface
  - Wellhead methane detectors
  - Methane vented from frac fluid flow-back tanks
- “Swabbing” of coiled tubing also resulted in pockets of gas being released
  - Gas samples taken for analysis
- Inflow of formation water followed clean-up of frac fluid
  - Formation water prevented the break-through of free gas flow
  - Origin and route of formation water needs to be determined
- Long-term transient pressure build-up test
  - Reservoir characterisation - Permeability, pore pressure and formation water
- Post-operational well analysis in progress

| MONTH                   | OPERATIONS (Completed)  |
|-------------------------|---|
| October 2019            | Site preparation - Completed                                    |
| 12 November 2019        | Install isolation valves/lower Frac Tree                        |
| 25 November 2019        | Mobilisation of Coiled Tubing Unit to wellsite                  |
| 27 November 2019        | Well clean out - Completed                                      |
| 28 November 2019        | Perforation of Carboniferous reservoir                          |
| 1-2 December 2019       | Casing Integrity Test/Cement Bond Log (CBL)                     |
| 9 December 2019         | Mini-frac of the Carboniferous reservoir                        |
| 10 December 2019        | Pump of hydraulic frac of the Carboniferous reservoir           |
| 10 – 15 December 2019   | Frac fluid flow-back through casing                             |
| 15 – 30 December 2019   | Rig up well for well test operations                            |
| January 2020            | Continued well clean up through production tubing               |
| January 2020            | Isochronal and well flow tests - <b>Omitted</b>                 |
| January - February 2020 | Long-term transient pressure build-up test – <b>In Progress</b> |

- Over 7 TCF of gas discovered in the Rotliegend in Poland
- CPR estimate **Rawicz North** prospective resource of **110 Bcf\***
  - Structure defined by 3D and 2D seismic
  - Reservoir, seal and charge proven in offset fields
  - Proven Rotliegendes gas fields in close proximity
    - Adjacent to Rawicz field (**94 Bcf**)
    - Close to Zalecze field (**900 Bcf**)
- Additional prospectivity
  - CPR estimates additional **100 Bcf\*** of prospective resources
  - Siciny-2 well has **21m\* conventional** gas pay in Rotliegendes with **16% porosity**
  - Addition prospects de-risked in success case
    - Total prospective resource **209 Bcf\***
    - CoS from 42% to 24% (**average CoS 28%\***)

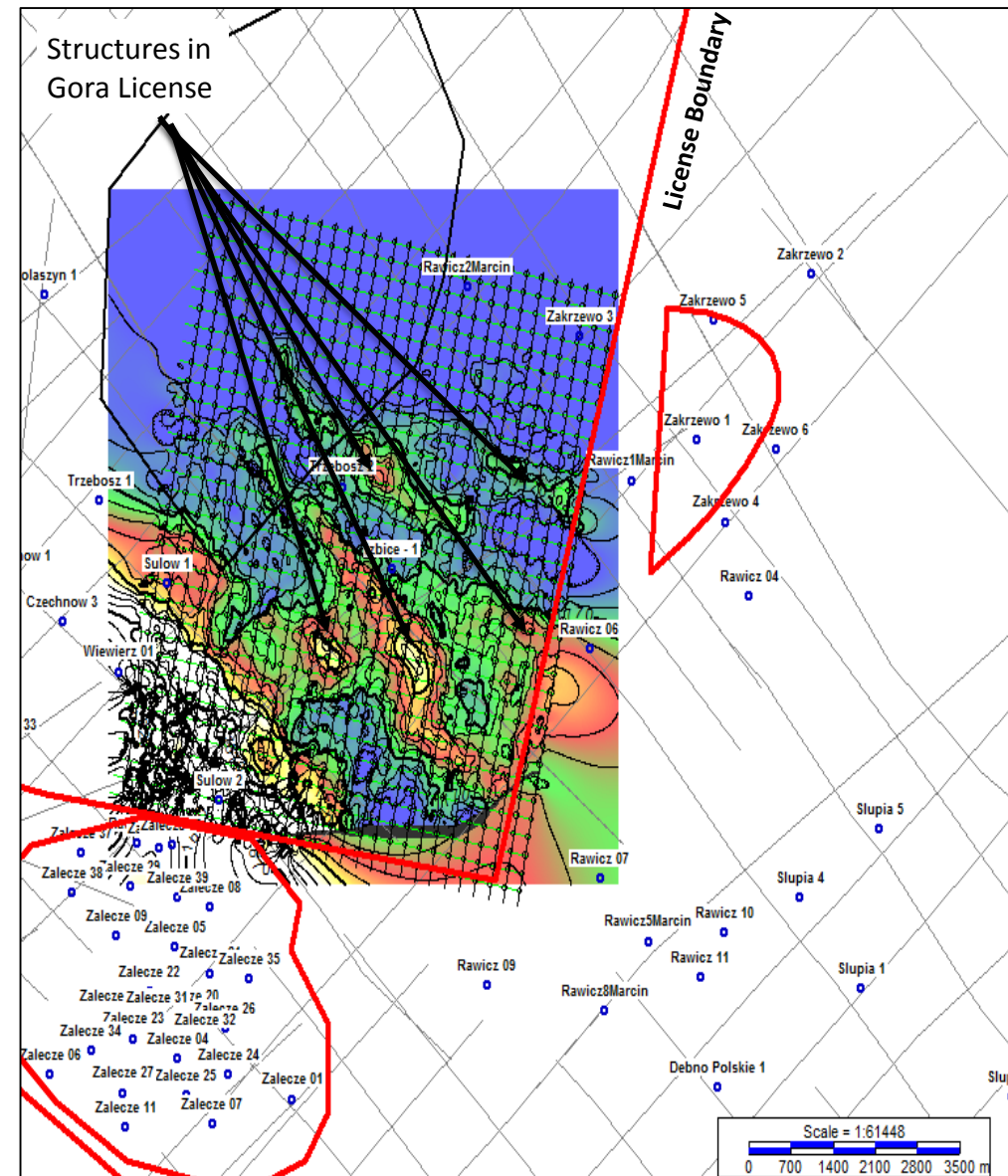
| Prospective Resources |            | Low          | Best         | High         |
|-----------------------|------------|--------------|--------------|--------------|
| Bronow                | Bcf        | 16.0         | 21.4         | 28.1         |
| Rawicz North          | Bcf        | 80.1         | 109.7        | 148.8        |
| Rawicz South          | Bcf        | 37.8         | 51.8         | 70.4         |
| Siciny                | Bcf        | 9.5          | 13.1         | 17.8         |
| Zuchlow West          | Bcf        | 10.0         | 13.3         | 17.6         |
| <b>TOTAL</b>          | <b>Bcf</b> | <b>153.4</b> | <b>209.3</b> | <b>282.7</b> |



Source: PGI (Polish Geological Institute)

\* Netherland Sewell & Associates Report (CPR) – May 1<sup>st</sup> 2019

- Purchased reprocessed 3D seismic data to assist in imaging over part of **Rawicz North** Structure
- Result is a **significant change** in structural interpretation
- Initial interpretation has resulted in:
  - Cluster of **3 structures** found to SE of Rawicz North
    - Requires further G&G work in order to:
      - Refine resources estimate
      - Enable risking prior to drilling decision
      - Select **drilling location**
- Additional potential within western part of the license
  - Requires further 3D seismic
- Potentially **significant increase** in prospectivity if additional 3D seismic acquired





- Jany-C1 well drilled in 2013 by copper company
- Entire section was logged in addition to recovering 45m of whole core
- Petrophysical analysis and core data indicate oil saturation with good shows during drilling
- FMI log interpretation indicates good fracture density and porosity in upper and lower fracture zones
- Due to well construction (target in Copper Shale) drilled with heavy mud
- 2D seismic implies no structural trap present
- Two open hole DST runs:
  - Short duration well tests returned oil and gas in drilling mud
  - Well test analysis indicates sufficient permeability for frac and commercial flow
- Two fields within the license have **historic oil production** from the main dolomite

1. £1.23m converted at a currency exchange rate of 1AUD:0.55GBP

## Main Dolomite Unconventional Oil Play

- Target: Mid-case **STOIP 238 MMbbls\*** oil in tight Dolomite reservoir with 2C contingent resources of **36 MMbbls\***
  - 2C resource area covers **48.6 km<sup>2</sup>**
  - Total Nowa Sol area is **1,165 km<sup>2</sup>**
- Numerous wells drilled through reservoir, finding ~40m tight oil dolomite between 1,100–1,800 metres depth
- Jany-C1 well likely drilled off-structure
- Jany-C1 to be re-entered, fracked and tested
- **Budget \$A2.25 million<sup>1</sup>**

| Contingent Resources |        | 1C  | 2C   | 3C   |
|----------------------|--------|-----|------|------|
| Jany-C1              | MMbbls | 9.3 | 36.1 | 85.8 |

\* Netherland Sewell & Associates Report (CPR) – May 1<sup>st</sup> 2019

- European onshore and shallow-water focus at both **corporate and asset level**
- In discussions with several vendors
- Opportunity No.1 – Strategic Investment in Private **UK North Sea Vehicle**
  - **Two applications** in UK 32<sup>nd</sup> Seaward Licensing Round
  - **Seven** contiguous blocks
  - **Existing fields and undeveloped resources** with exploration upside
- Opportunity No.2 – Onshore Central Europe **Gas Field Development**
  - Operated Interest
  - Circa **100 Bcf** gas field development
  - Near-term FDP submission and **first gas** targeted within 18 months
- Opportunity No.3 - Onshore Eastern European **Oil Production**
  - Non-operated interest
  - Appraisal/Exploration upside
  - Potential **equity based** transaction

|              | Conventional  | Unconventional  |
|--------------|---|---|
| Gora         | <ul style="list-style-type: none"> <li>▪ <b>Acquisition of reprocessed conventional 3D seismic dataset</b> <ul style="list-style-type: none"> <li>○ Further Geological and Geophysical interpretation</li> <li>○ Refine resources estimates</li> <li>○ Prospect risking prior to drilling decision</li> <li>○ Select drilling location</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>▪ <b>Sicity-2 Appraisal operations (Nearing Completion)</b> <ul style="list-style-type: none"> <li>○ Long-term pressure build-up test and completion of operations</li> <li>○ Post appraisal data analysis underway</li> <li>○ Determine next steps</li> </ul> </li> </ul> |
| Nowa Sol     |   | <ul style="list-style-type: none"> <li>▪ <b>Jany-C1: 2C contingent resources evaluation</b> <ul style="list-style-type: none"> <li>○ Licence conversion submitted to Ministry of Environment</li> <li>○ Work program designed to commence in Q2 2020</li> <li>○ Completion within 9 months</li> </ul> </li> </ul> |
| New Ventures | <ul style="list-style-type: none"> <li>▪ <b>European onshore and shallow water focus</b> <ul style="list-style-type: none"> <li>○ Existing discoveries with technical resources</li> <li>○ Modest capital entry requirements</li> <li>○ Material appraisal/exploration upside</li> <li>○ Near-term activity and newsflow</li> </ul> </li> </ul>               |   |



- **Multi-faceted** portfolio of European projects and opportunities being progressed
- Siciny-2 appraisal executed **within budget** and schedule
- Large **Carboniferous play proven**, but viability depends on understanding formation water ingress
- **209 Bcf** of additional **conventional** prospective resources\* identified on Gora
- Recently acquired reprocessed 3D dataset highlights **additional conventional prospectivity**
- Three additional Rotliegende structures adjacent to Rawicz North identified
- Jany-C1 frac and flow test expected to commence in **Q2 2020**
- Polish energy macro underpinned by **robust and growing energy demand** and reduction in Russian gas imports
- Active New Ventures Pipeline
  - Strategic Investment in UK North Sea Vehicle†
  - New asset and corporate opportunities under review

\* Volume estimates in this presentation are from Netherland, Sewell & Associates, Inc, report entitled "Estimates of Reserves and Future Revenue and Contingent Resources and Cash Flow to the Gemini Resources Ltd Interest and Gross (100%) Prospective Resources in Certain Oil & Gas Properties located in the Nowa Sol and Gora Concessions Permian Basin, Onshore Poland as of May 1, 2019" (Report or CPR). The % CoS in the presentation has been estimated by Ansila's Management.

† See disclosures in the Company's Entitlement Issue Prospectus dated 10 September 2019, FY19 Annual Report released on 25 September 2019 and Quarterly Report released on 30 October 2019.



Photo: On location at Siciny-2 wellsite

## Ansila Energy as at 31<sup>st</sup> January 2020

|   |                         |
|---|-------------------------|
| Market:                                   | ASX                     |
| ASX Code:                                 | ANA                     |
| Share price:                              | A\$0.014                |
| <b>Total Ordinary shares <sup>1</sup></b> | <b>508,772,126</b>      |
| Market capitalisation                     | A\$7.1 million          |
| Cash*                                     | ~ A\$2.7 million        |
| Financial Assets - Investments*           | ~ A\$1.1 million        |
| <b>Cash and Financial Assets</b>          | <b>~ A\$3.8 million</b> |

<sup>1</sup> Ordinary shares does not include:

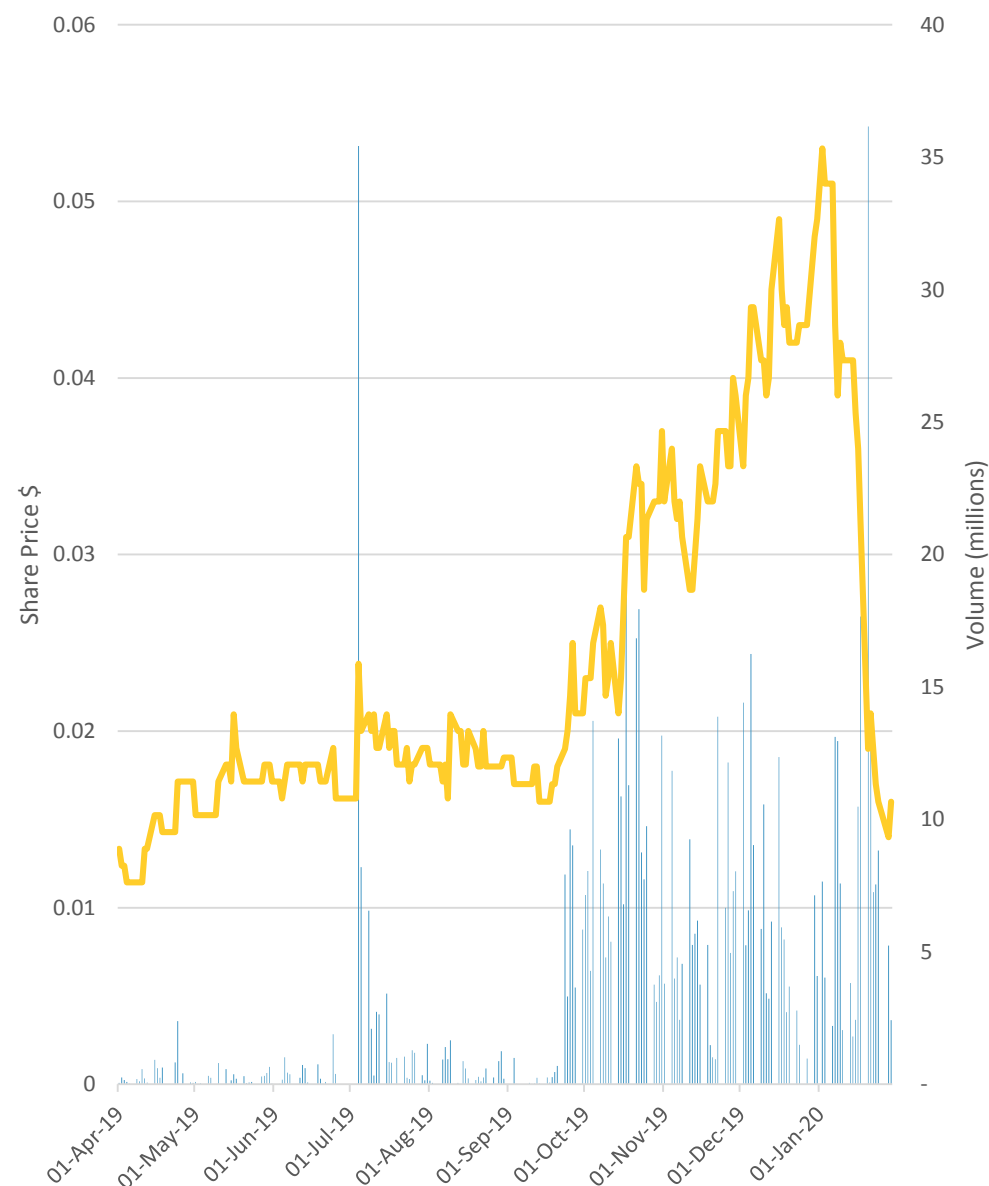
Partly paid ordinary shares on issues as at 29 January 2020:

- 5,703,550 Partly Paid Shares, issue price of \$0.20 of which \$0.01 is paid

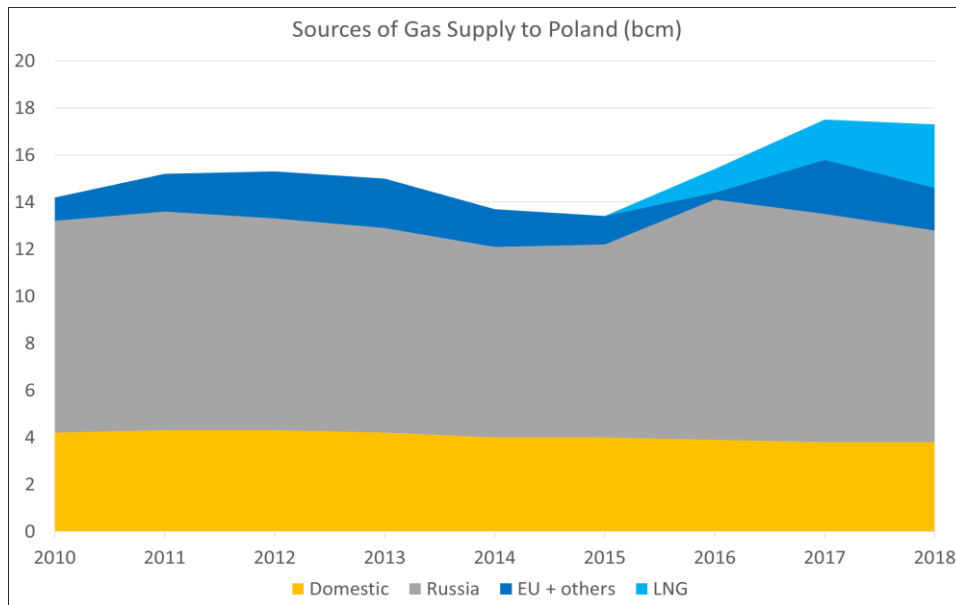
Unquoted securities convertible over un-issued shares, as at 29 January 2020

- 20,000,000 Options, exercisable at \$0.04, expiring 31/12/2022
- 64,844,991 Performance Rights, subject to performance conditions, expiring 30/09/2022

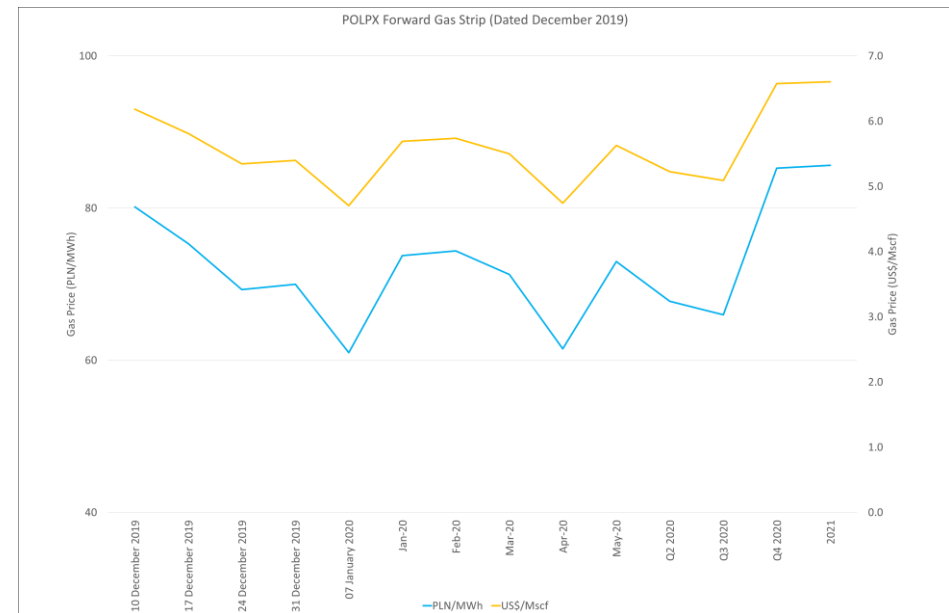
\* As at 31 December 2019



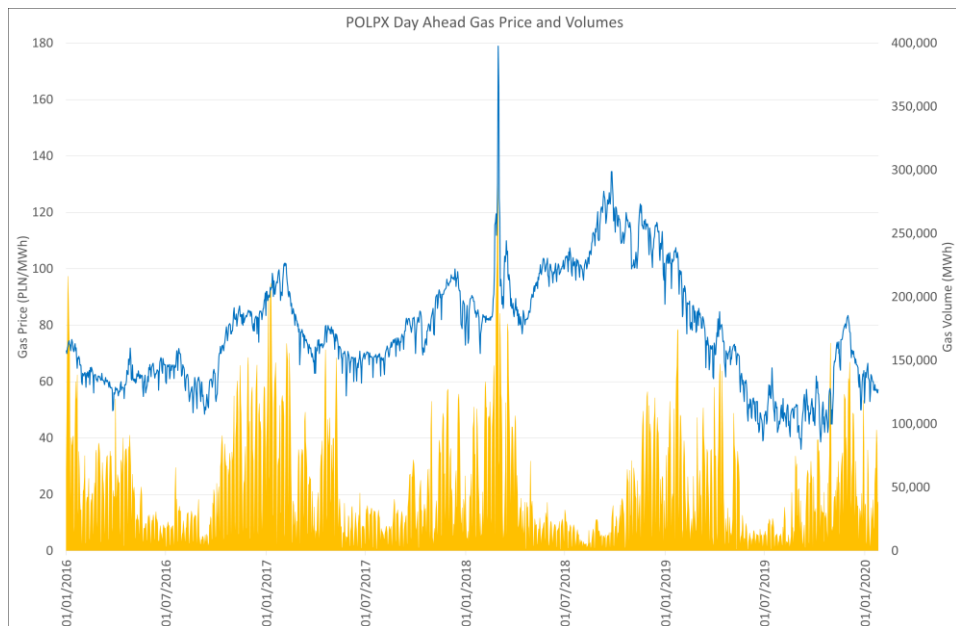
Volume Close



Source: PGNiG



Source: POLPX Monthly Reports (Dec 2019)



Source: POLPX Monthly Reports (Nov 2019)

- Poland's energy consumption is heavily dependent on imports with gas demand growing strongly
- Security of supply and desire to reduce dependency on Russian gas imports is high on the political agenda
- Gas pipeline infrastructure is extensive and has spare capacity (Gaz System S.A. data at 31 Dec 2018):
  - Length – 10,743 km
  - Gas volume transmitted – **17.2 bcm** (607.2 Bcf)
- Seasonal gas pricing (day ahead) historicals between **\$4.6 per mscf** (summer) and **US\$8 per mscf** (winter)



## Robust Gas Demand

- Poland is heavily dependent upon oil and gas imports – particularly from Russia
- Seasonal domestic gas prices in excess of **US\$10 per mscf** during winter
- Recently established import terminal – Gas imported from USA

## Nearby Infrastructure

- Gas pipeline infrastructure is extensive and has spare capacity
- Gaz System S.A. transmitted 607.2 Bcf for (year to December 2018)

## Supportive Fiscal Terms

- Overriding royalty of 5% of net profits
- Government tax and royalty regime
  - Government royalties of:
    - 6% - conventional oil
    - 3% - unconventional oil
    - 3% - conventional gas
    - 1.5% - unconventional gas
  - Production tax of
    - US\$0.39 per bbl for oil
    - US\$0.19 per mscf for gas

## Indicative Development Scenarios

- Successful frack and flow tests will advance horizontal development programs for the two tight oil and gas plays

### Nowa Sol Tight oil play

- Horizontal wells with 16 stage fracks, with estimated 2C ultimate recovery per well of 384,000 barrels
- Indicative individual horizontal well cost of US\$7.1 million (base case estimate)
- 128 acre well spacing and 94 wells across 48.6km<sup>2</sup>

### Gora Tight gas play

- Horizontal wells with 16 stage fracks, with estimated 2C ultimate recovery per well of 8,240 MMCF
- Indicative individual horizontal well cost of US\$10.4 million (base case estimate)
- 160 acre well spacing and 192 wells across 41.6km<sup>2</sup>

### BEVAN TARRATT – NON EXECUTIVE CHAIRMAN

- Non Executive Chairman of ASX-Listed Protean Energy. Non Executive Director of ASX-Listed Jacka Resources
- Extensive experience in primary and secondary capital raising as well as corporate strategic consulting
- Over 20 years experience in accounting and broking firms

### DR ANDREW MATHARU – EXECUTIVE DIRECTOR

- 25 years+ experience across the oil & gas industry and equity capital markets
- Commenced career as a Petroleum Engineer with Chevron and Kerr McGee in the UK North Sea
- Experience gained in corporate advisory, equity capital markets, M&A and financing numerous small to mid-cap oil & gas companies
- VP Business Development at Tower Resources plc – corporate & asset M&A and capital raisings

### NATHAN LUDE – EXECUTIVE DIRECTOR

- Broad experience in asset management, mining and energy sectors
- Operates a corporate advisory firm which introduces capital and new management to public and private vehicles
- Previous and current roles include business development in a Canadian gas major, Non Executive Chairman of ASX listed Frontier Resources and Non Executive Director of ASX listed GTI Resources

### CHRIS LEWIS – TECHNICAL DIRECTOR

- Geophysicist and oil & gas professional with 25 years+ experience
- Experience gained with a spectrum of oil majors, small-mid caps, start-ups and consultancies
- Executive and board experience with geographical expertise in Africa, North Sea, CEE and Australasia
- Successful monetisation with Centric Energy, Lion Petroleum, ZETA Petroleum and Blackstar Exploration



Map source: Gaz System S.A.



| Contingent Resources       |        | 1C          | 2C          | 3C          |
|----------------------------|--------|-------------|-------------|-------------|
| Jany-C1                    | MMbbls | 9.3         | 36.1        | 85.8        |
| <b>Ansila 35% Interest</b> |        | <b>3.3</b>  | <b>12.6</b> | <b>30.0</b> |
| Siciny-2                   | Tcf    | 0.7         | 1.6         | 3.2         |
| <b>Ansila 35% Interest</b> |        | <b>0.25</b> | <b>0.56</b> | <b>1.1</b>  |

| Prospective Resources      |     | Low P90      | Best P50     | High P10     |
|----------------------------|-----|--------------|--------------|--------------|
| Bronow                     | Bcf | 16.0         | 21.4         | 28.1         |
| Rawicz North               | Bcf | 80.1         | 109.7        | 148.8        |
| Rawicz South               | Bcf | 37.8         | 51.8         | 70.4         |
| Siciny                     | Bcf | 9.5          | 13.1         | 17.8         |
| Zuchlow West               | Bcf | 10.0         | 13.3         | 17.6         |
| <b>TOTAL</b>               |     | <b>153.4</b> | <b>209.3</b> | <b>282.7</b> |
| <b>Ansila 35% Interest</b> |     | <b>53.7</b>  | <b>73.3</b>  | <b>98.9</b>  |

- **Prospective Resources Cautionary Statement:** The estimated quantities of petroleum 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.