



INVICTUS  
ENERGY LIMITED

**Invictus Energy Ltd (ASX: IVZ)**

Africa Oil Week – Africa Independents Forum  
**Cabora Bassa Project Update**



**Stuart Lake**  
Chairman

November 2021

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**COMPETENT PERSON'S STATEMENT** The information in this document relating to petroleum resources and exploration results is based on information compiled by Mr Scott Macmillan. Mr Macmillan is a Reservoir Engineer and has a Bachelor of Chemical Engineering and an MSc in Petroleum Engineering from Curtin University. He is a member of the Society of Petroleum Engineers (SPE) and has over 15 years experience in the industry in exploration, field development planning, reserves and resources assessment, reservoir simulation, commercial valuations and business development. Estimated resources are unrisks and it is not certain that these resources will be commercially viable to produce.

**HYDROCARBON RESOURCE ESTIMATES** The Prospective Resource estimates for Invictus' SG 4571 permit presented in this report are prepared as at 26 June 2019. The estimates have been prepared by the Company in accordance with the definitions and guidelines set forth in the Petroleum Resources Management System, 2018, approved by the Society of Petroleum Engineer and have been prepared using probabilistic methods. The Prospective Resource estimates are unrisks and have not been adjusted for both an associated chance of discovery and a chance of development. The Company confirms that there have not been any material changes to the resource estimate since the release of the updated Prospective Resource Estimate on 1 July 2019. For further details on the Prospective Resource refer to the 1 July 2019 ASX announcement the Company is not aware of any new information and that all material assumptions and technical parameters underpinning prospective resource estimate continue to apply and have not materially changed.



- > **The first mover in the under-explored Cabora Bassa Basin, Zimbabwe, one of the last undrilled Oil & Gas basins in Africa**
- > **Muzarabani Prospect is the largest undrilled conventional oil and gas prospect onshore Africa**
- > **8.2Tcf + 247 million barrels of conventional gas-condensate<sup>1</sup> (~1.6 billion boe) independently verified**
- > **Infill seismic survey completed and preparing for high impact basin opening drilling campaign in 1H 2022**



SG 4571  
Zimbabwe

## Invictus Snapshot

**2018**

Listed

**WA**

Headquartered

**\$93.6m**

Market Cap  
@\$0.16

**~\$7.3m**

Net Cash



Elephant scale  
prospective Oil & Gas  
resource, defined by  
high quality data set



Rapidly developing &  
supportive jurisdiction  
of Zimbabwe



High quality  
surrounding  
infrastructure



Significant Southern  
African Energy  
shortage



Multiple offtake  
agreements in place  
for up to 1.2 Tcf over  
20 years



Multiple downstream  
supply opportunities



Low valuation in  
comparison to Sub-  
Saharan Oil & Gas  
peers



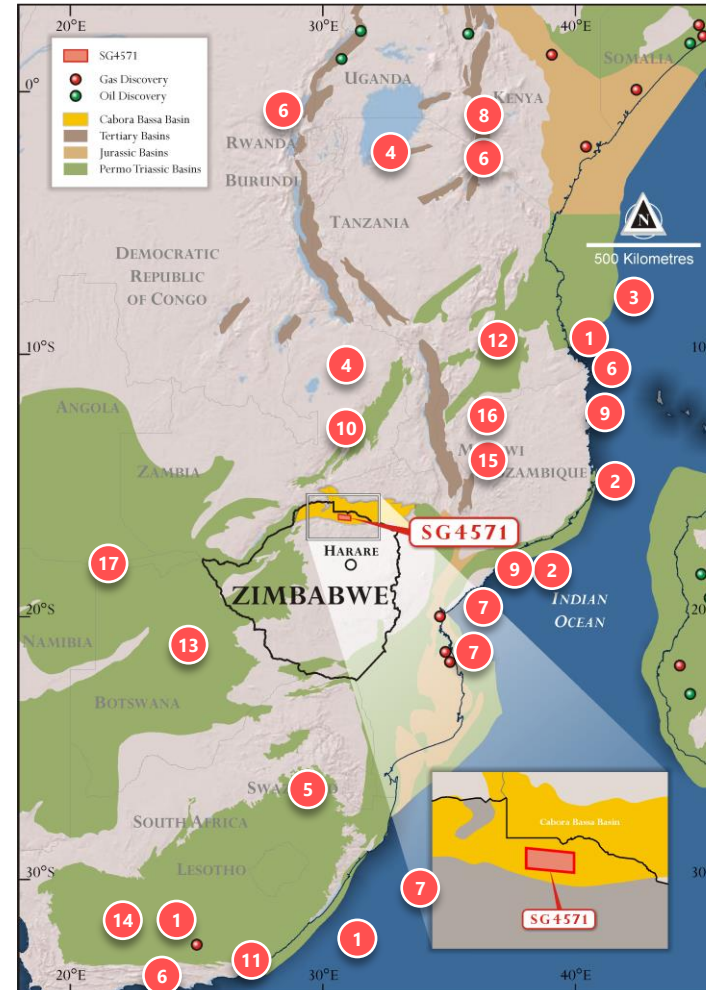
Highly experienced  
Board &  
Management

# SG 4571 – Asset Overview

## Owner and operator of SG 4571 Cabora Bassa asset with first term of work program complete to August 2020

- New 2D infill seismic acquired recently completed – 840 line km
- Legacy dataset of \$30m seismic, gravity aeromagnetic and geochemical dataset generated by Mobil during 1990's who moved away from the asset due to focus on oil (not gas)
- New seismic will be integrated with legacy data and demonstrates similarities to other successful rift basin plays in the region
- Several other high-quality and onshore and offshore oil & gas assets and operators within the region, including Sasol, Total, ENI and ExxonMobil
- Strategic location to provide solution to Southern African energy crisis

Asset Overview	SG 4571
Ownership	80%
Acreage	250,000 acres
Licence Duration	June 2024 (2 <sup>nd</sup> term)
Environmental Impact Assessment	Completed Aug 2019
2D Infill Seismic - 840km	Completed Nov 2021
Independent Prospective Resource <sup>1</sup>	9.25 TcF + 294m barrels of Conventional Gas-Condensate



Local Operators	
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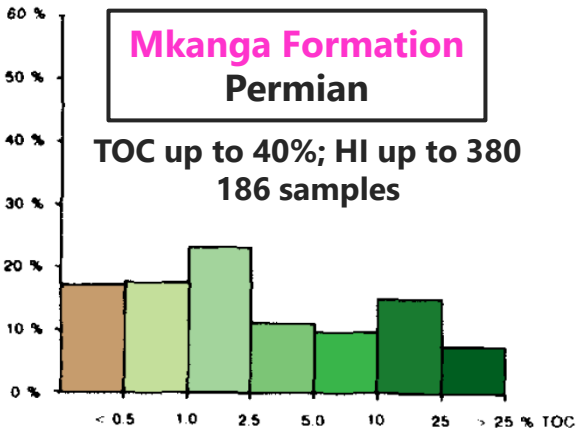
# Working Petroleum System Present and Multiple Source Rocks

Source Rock & Seal present in the basin – live oil recorded from 3 Mkanga formation surface samples

## TOC Frequency

**Mkanga Formation**  
Permian

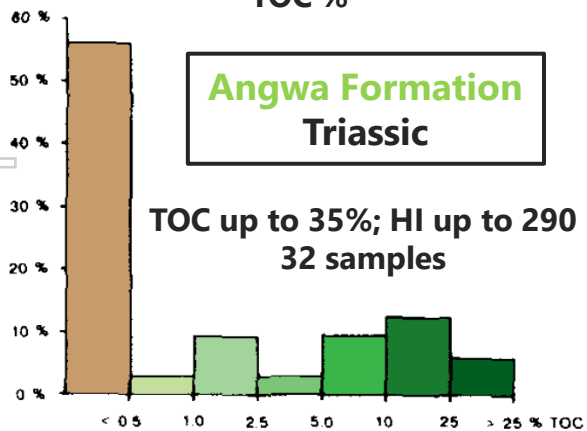
TOC up to 40%; HI up to 380  
186 samples



TOC %

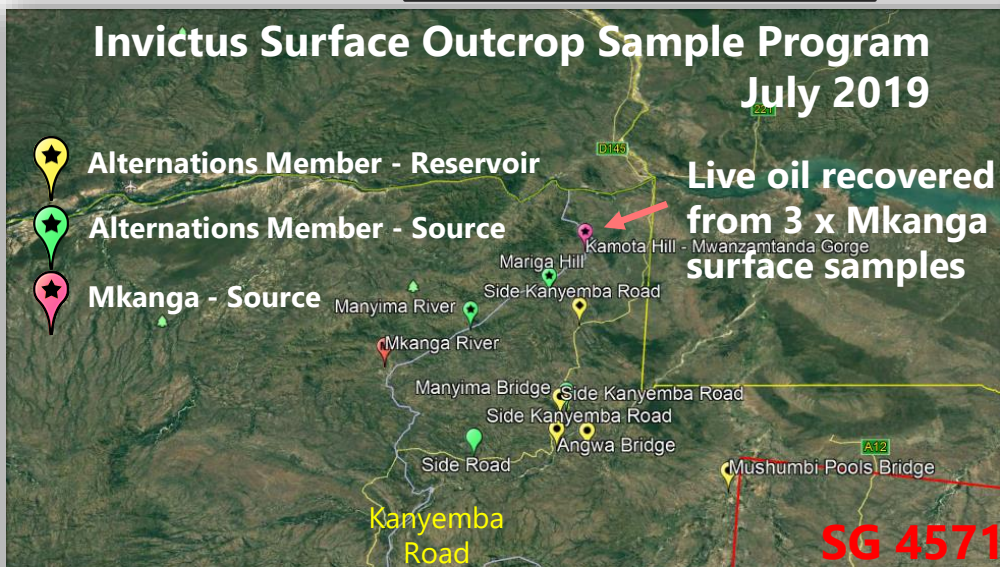
**Angwa Formation**  
Triassic

TOC up to 35%; HI up to 290  
32 samples



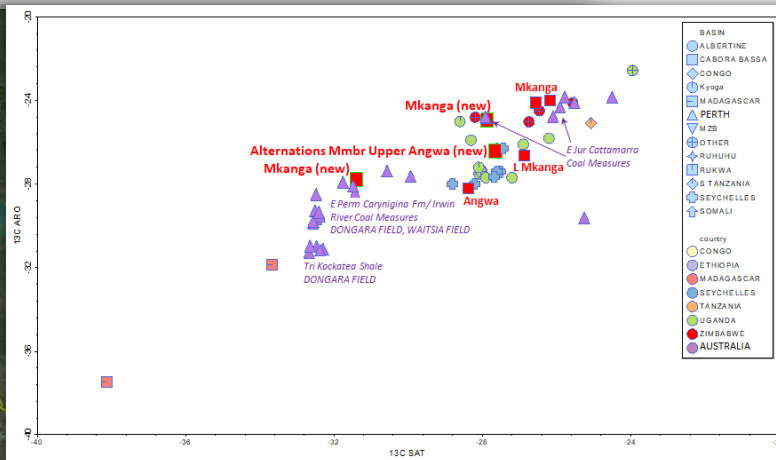
TOC %

## Outcrop Locations



Alternations Member  
Source – fossiliferous, coaly mudstone  
Manyima Bridge – 43m outcrop

## Source Rock



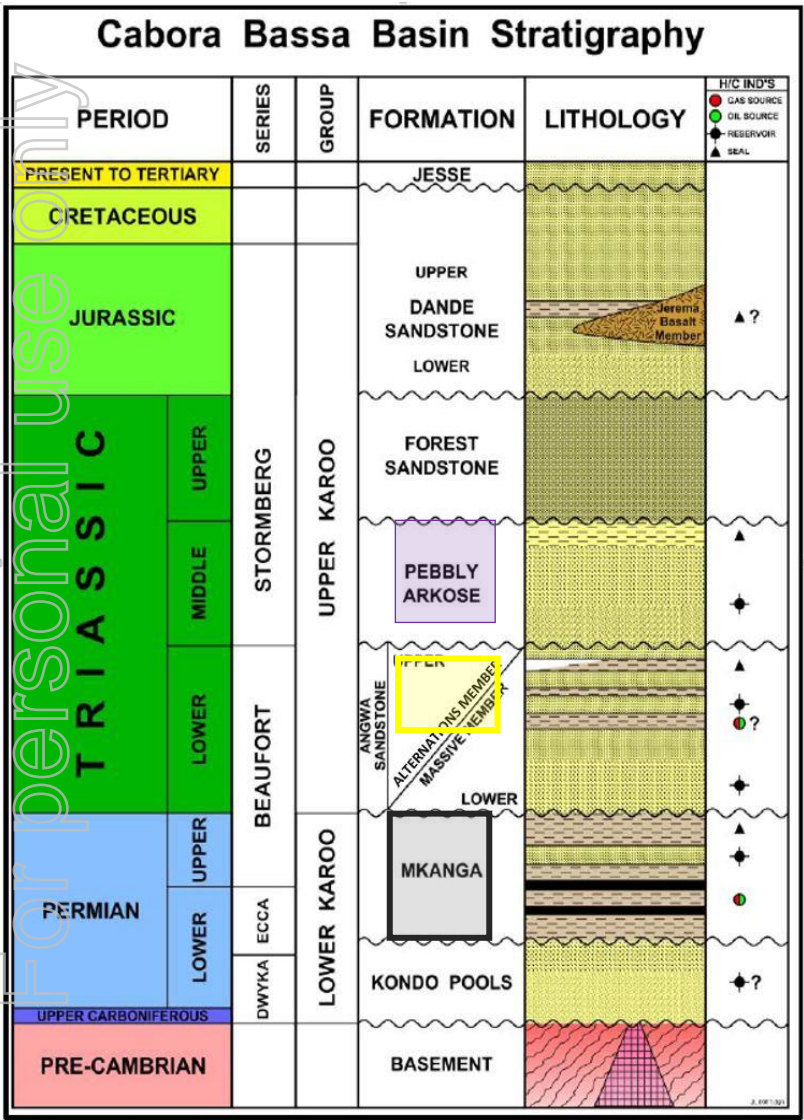
## Seal

Table 1  
Mercury and Oil/Brine Breakthrough Pressures  
with Corresponding Maximum Oil Column Heights

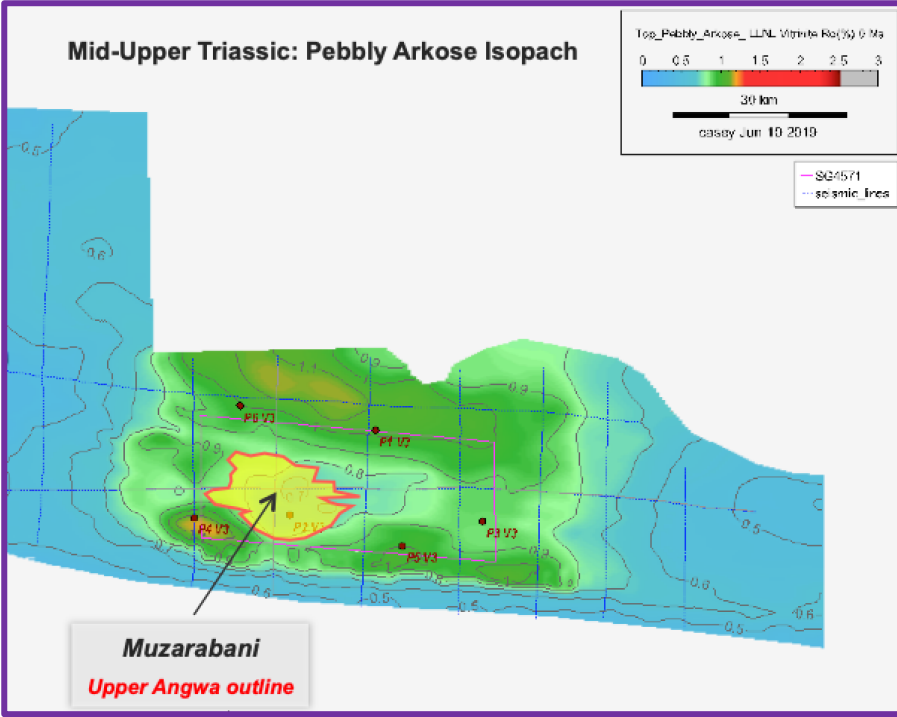
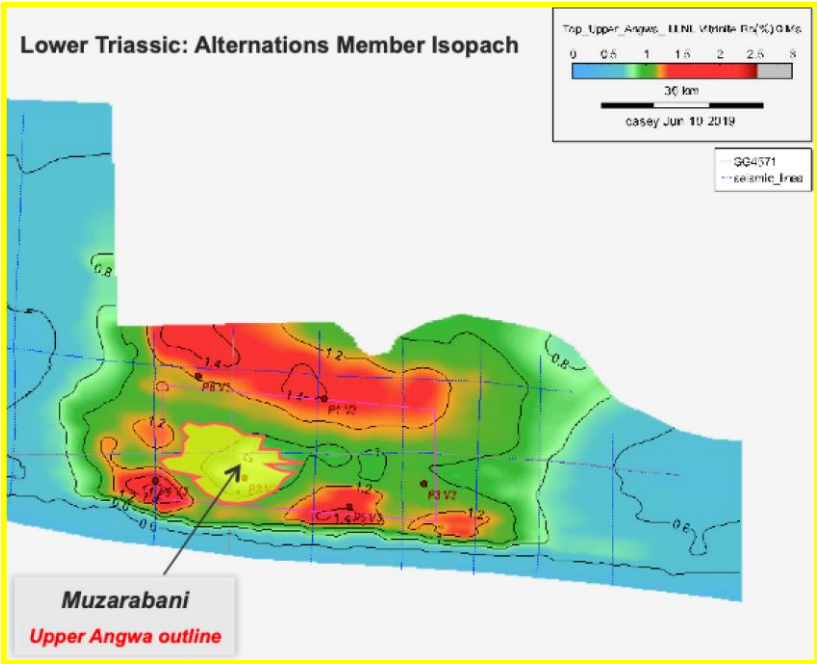
Sample	Lithology	Porosity	P(bt) Hg	P(bt) oil	Height (ft)
90/1630A2-1a	Mst		2,500	170	1,308
90/1630A2-2	Sst	13.3	3,000	204	1,570
90/1630A2-3a	Mst		1,000	68	523
90/1630B1-1	Sst		100	7	52
91/1529D2-3	Mst		6,000	408	3,140
91/1529D2-11	Sst	11.7	2,500	170	1,308
91/1529D4-3	Mst		75	5	39
91/1530C3-3	Sst	10.2	1,000	68	523
91/1530C3-9	Sst	18.1	2,000	136	1,047
Z69/2	Mst		500	34	262



# Maturity – Present Day



Generation on structure present day



Red = Gas  
Green = Oil

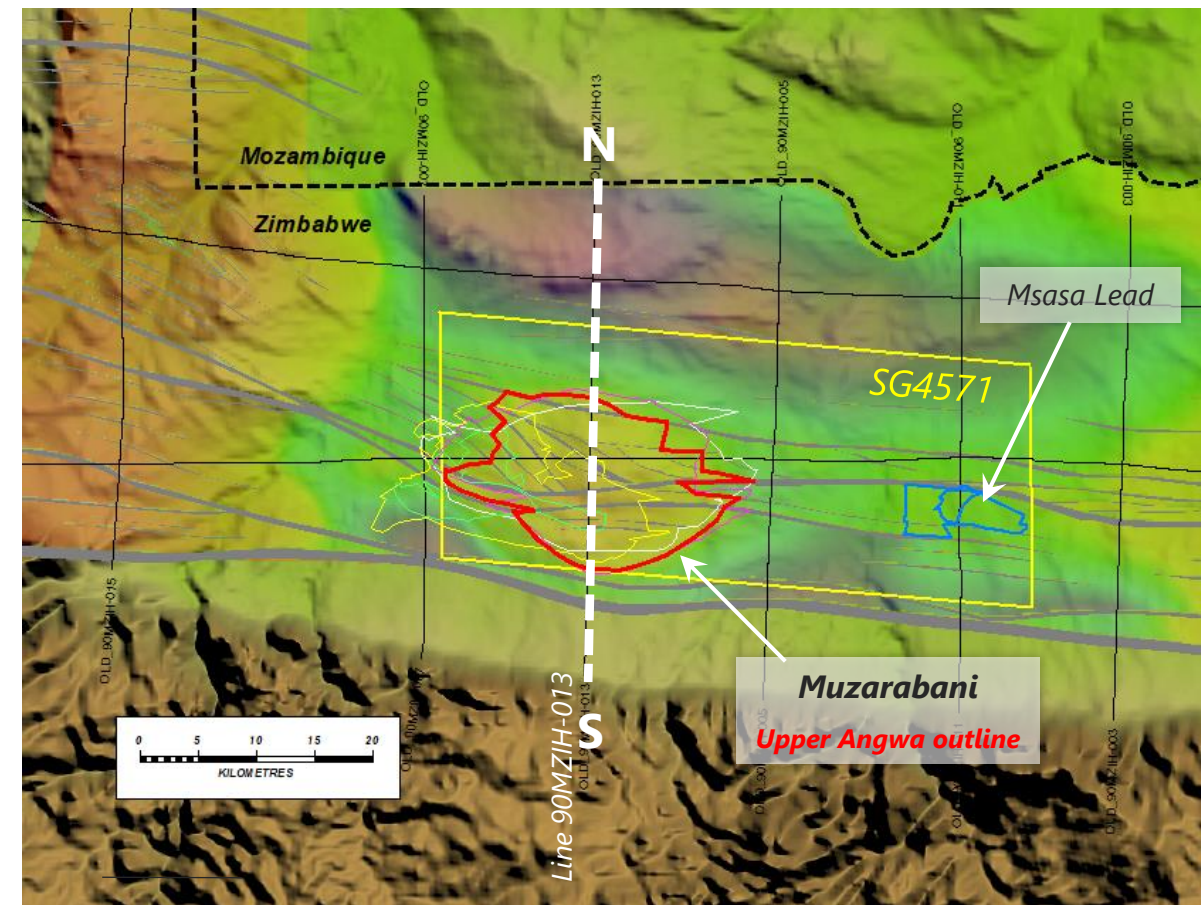
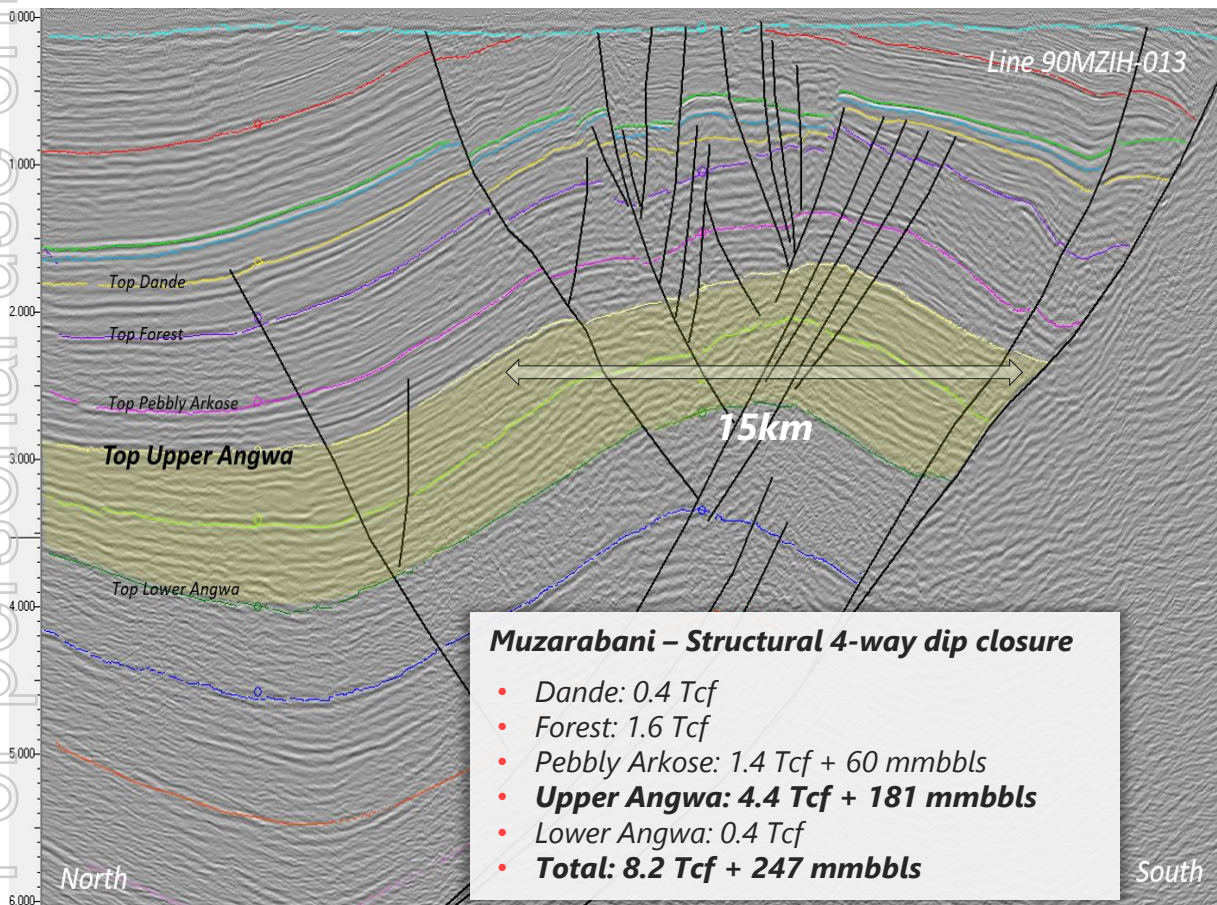
name	HI mg/g	TOC %	GOGI	TI mg/g	Thickness (m)
D/E-Terrigenous terrestrial wax/resin	300	20	0.37	6	40
C-Aquatic non-marine (lacustrine)	400	5	0.18	12	10



# SG 4571 – Asset Overview

Muzarabani Prospect – 5 Stacked Targets can be targeted from a single well. 200km<sup>2</sup> under closure

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Muzarabani-1 well estimated dry hole cost US\$12m

Key differentiator is presence of rich Triassic source rock and high poro-perm reservoir in primary Upper Angwa Alternations Member



# CB21 Seismic Survey Successfully Completed

CB21 Survey 839.3kms 2D seismic acquired to refine Muzarabani-1 well location and mature basin margin play

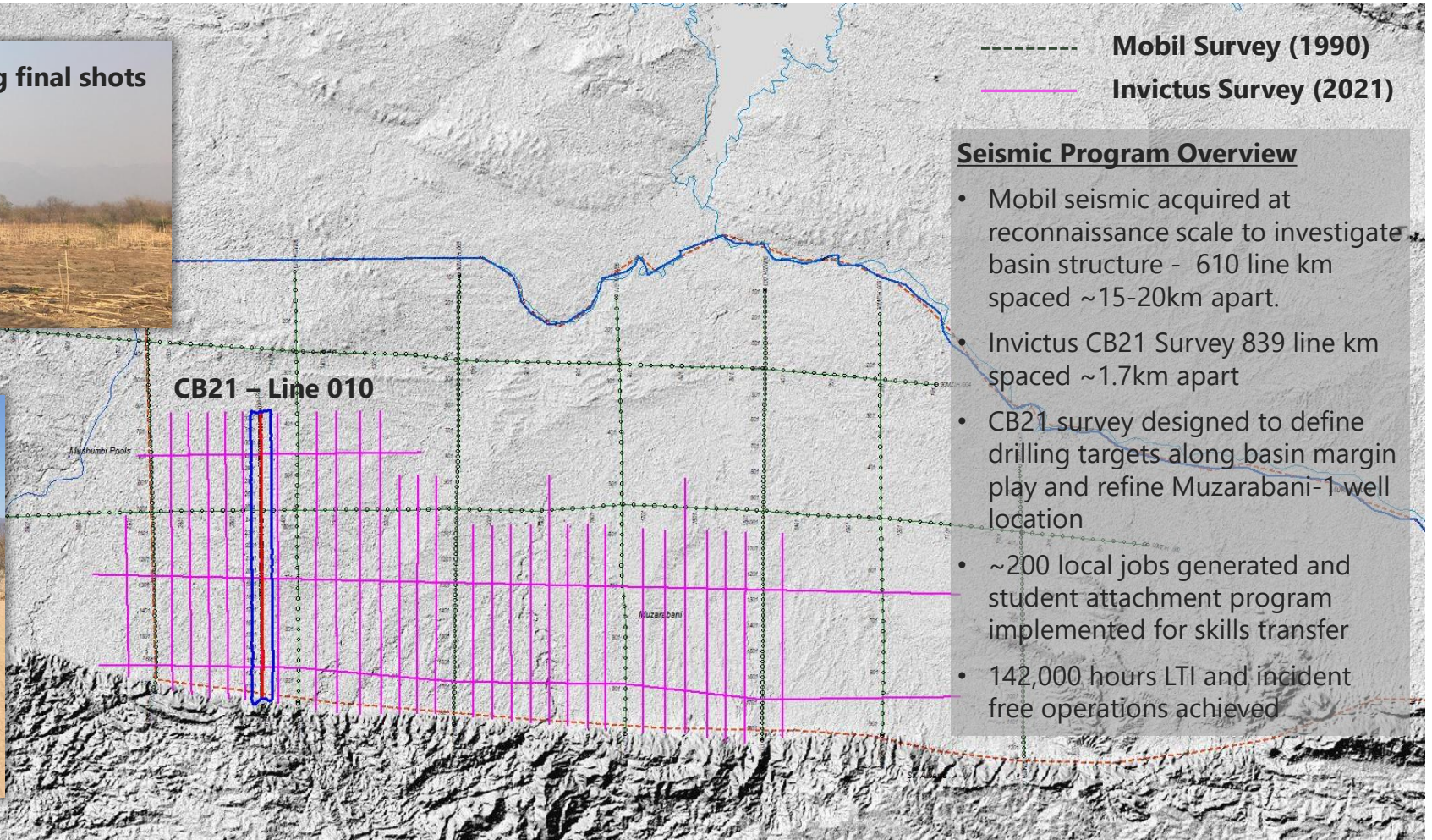
Polaris Vibroseis Units acquiring final shots



Stryde Wireless Nodal System



CB21 – Line 010



----- Mobil Survey (1990)

————— Invictus Survey (2021)

## Seismic Program Overview

- Mobil seismic acquired at reconnaissance scale to investigate basin structure - 610 line km spaced ~15-20km apart.
- Invictus CB21 Survey 839 line km spaced ~1.7km apart
- CB21 survey designed to define drilling targets along basin margin play and refine Muzarabani-1 well location
- ~200 local jobs generated and student attachment program implemented for skills transfer
- 142,000 hours LTI and incident free operations achieved

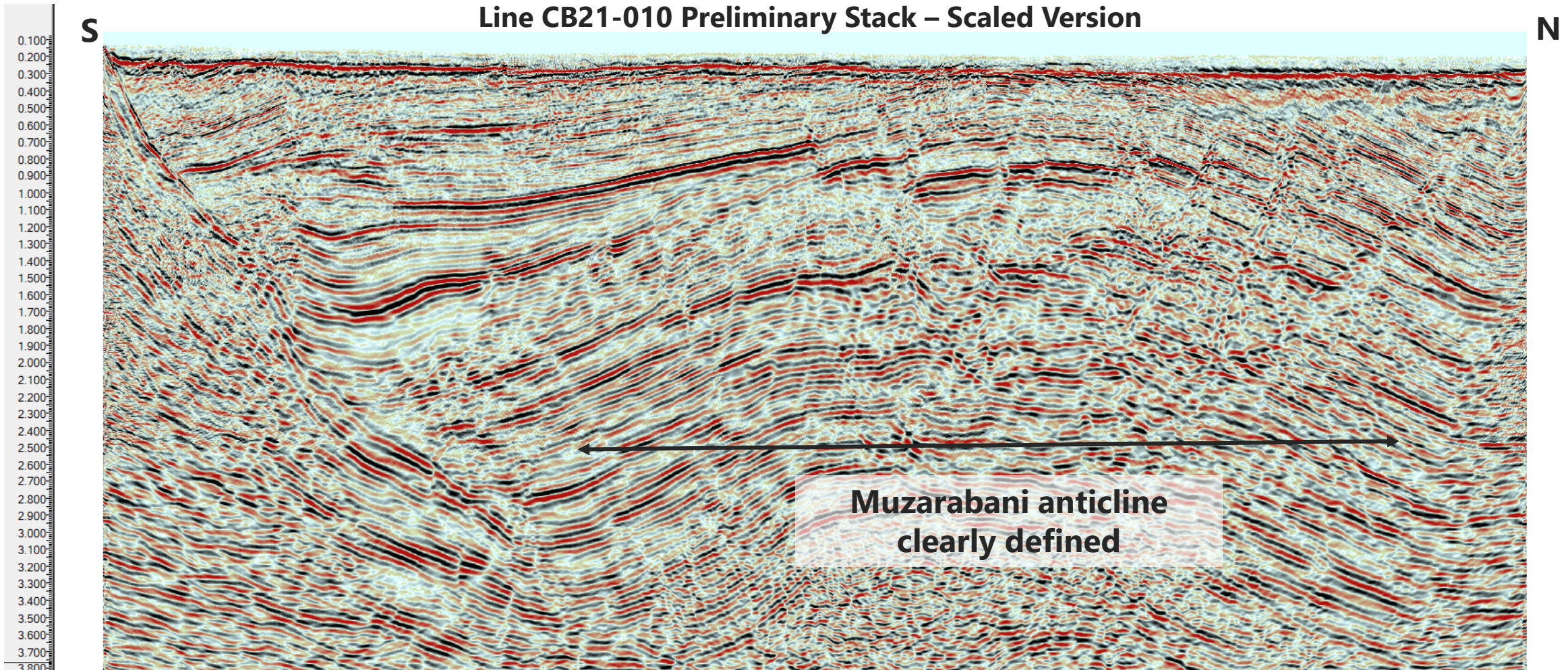


# CB21 Seismic Data Early Look



Preliminary processing shows very encouraging early signs – clear fault definition and deep reflectors

Line CB21-010 Preliminary Stack – Scaled Version



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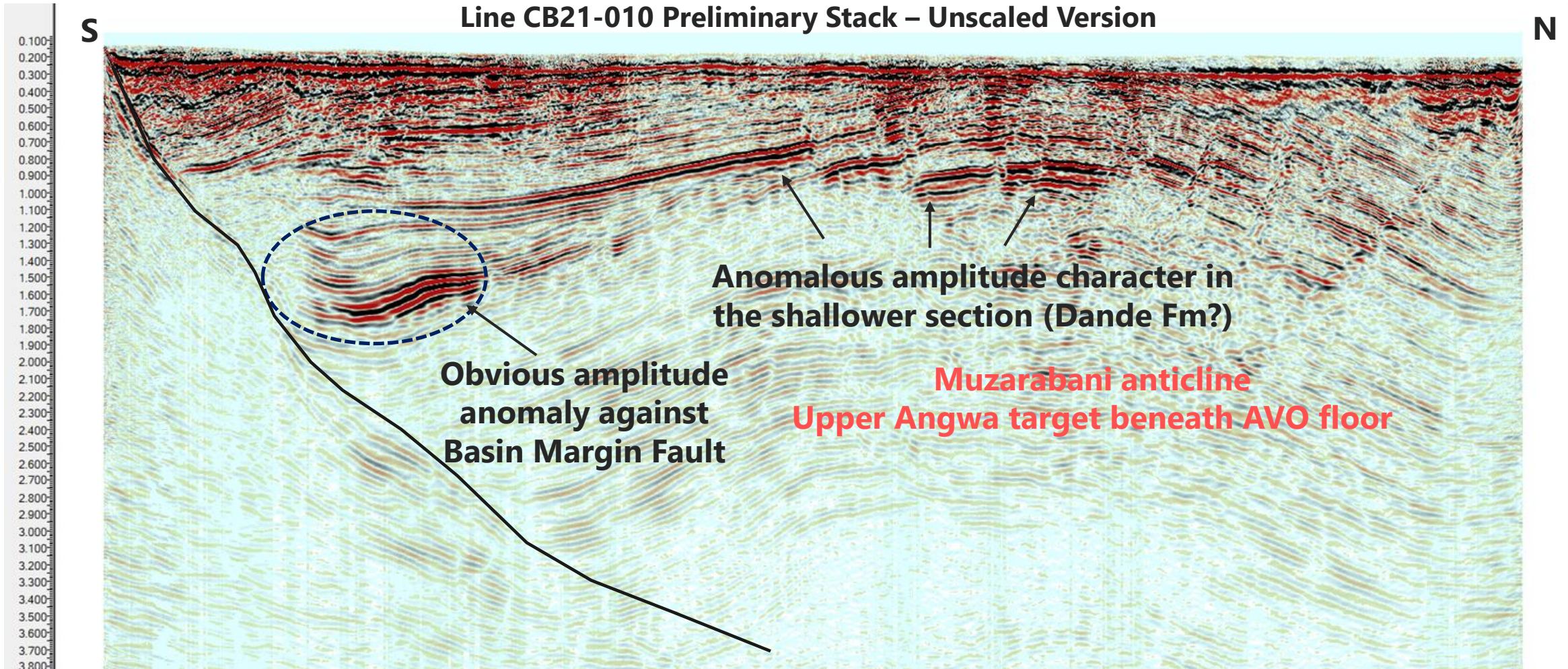


# CB21 Seismic Data Early Look



Strong amplitude anomalies in shallow sections along basin margin and Muzarabani structure

Line CB21-010 Preliminary Stack – Unscaled Version



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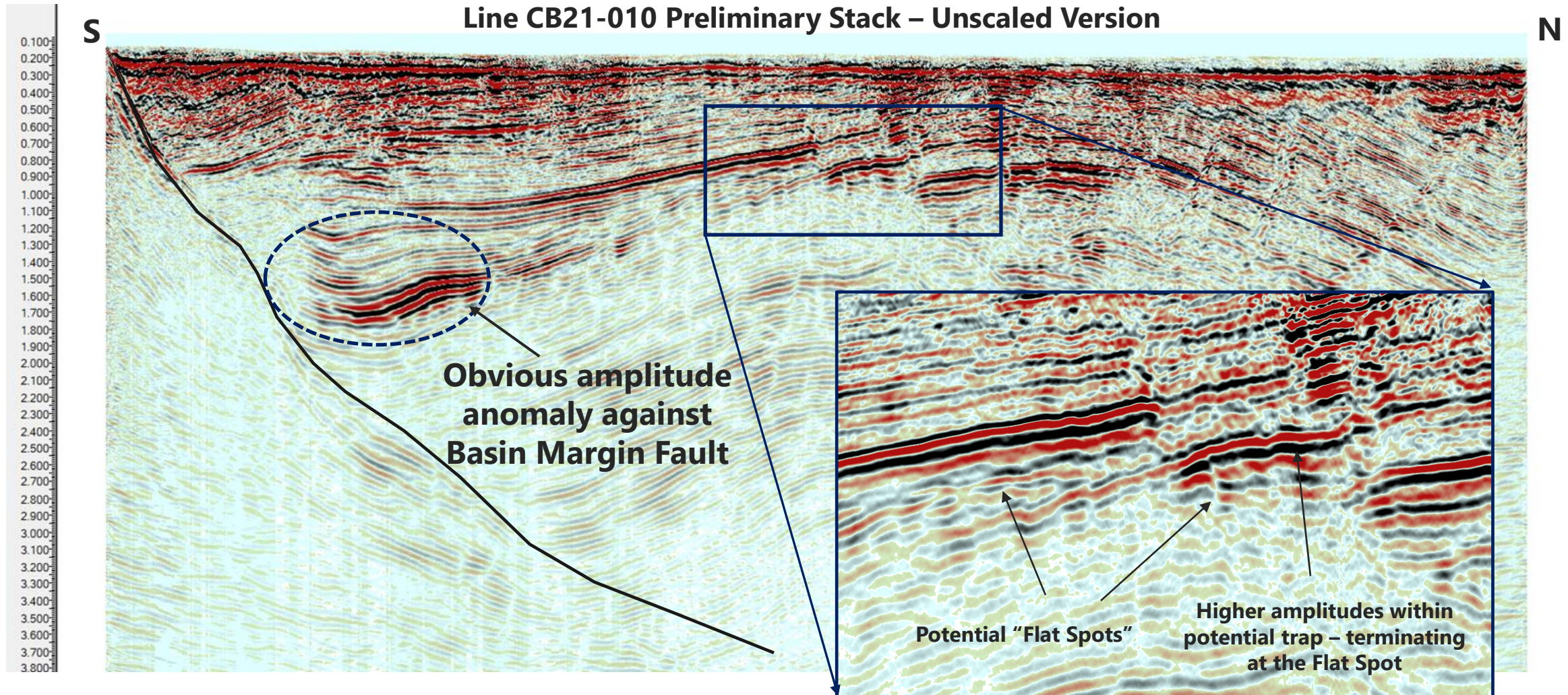


# CB21 Seismic Data Early Look – Direct Hydrocarbon Indicators?



## Potential “Flat Spots” in Muzarabani structure

Line CB21-010 Preliminary Stack – Unscaled Version



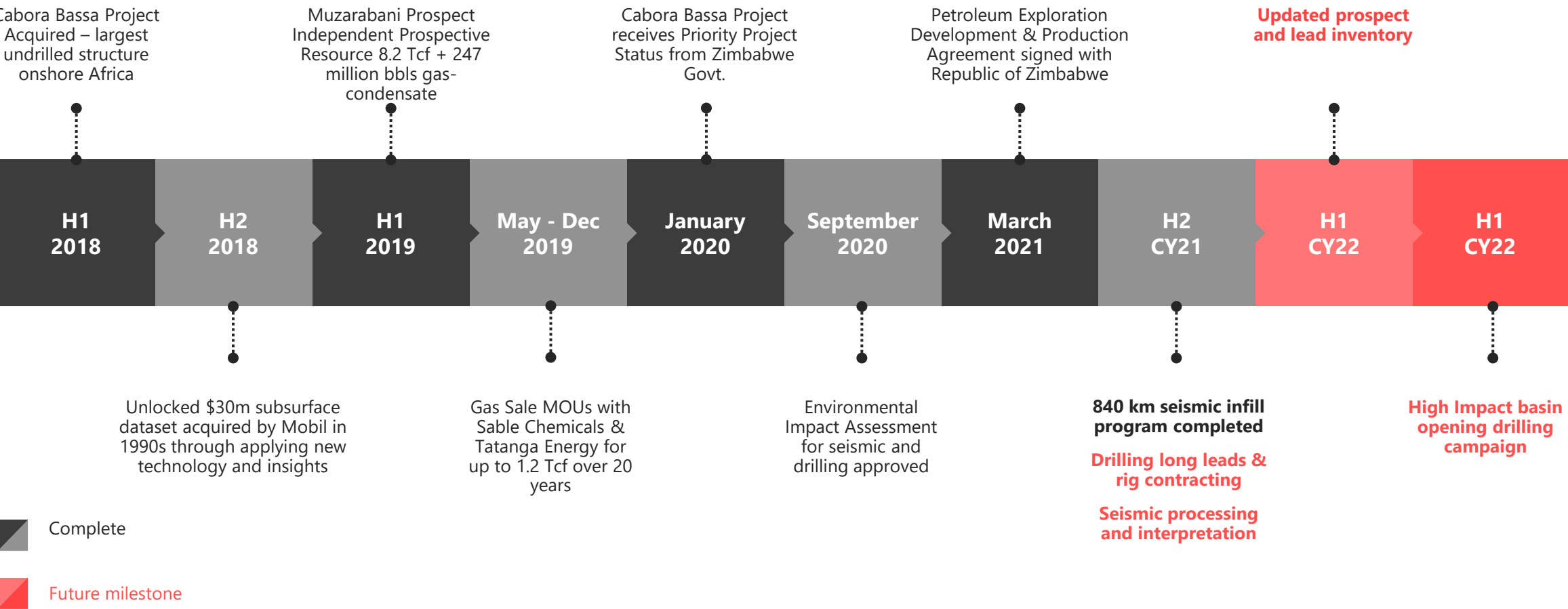
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# History & Strategic Milestones



Invictus has spent 3 years de-risking project & holds a clear pathway to continue towards development of the SG 4571 asset

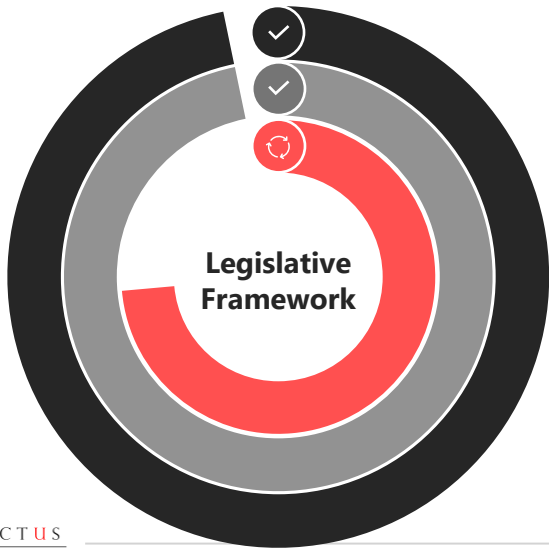


# Zimbabwe – Geopolitical Overview



An overlooked jurisdiction for last 20 years due to political and economic instability, despite significant reforms

- New government is pro-business, promoting foreign investment and has implemented investor friendly reforms
- Mines Minister is a former resources industry executive that understands the needs of the resources sector
- Petroleum Exploration Development & Production Agreement ('**PEDPA**') signed on 26 March 2021
- New Petroleum Production Sharing Agreement ('**PPSA**') nearing finalisation



## Amended Indigenization & Empowerment Act

- 100% foreign ownership of assets
- Guarantee of investor rights
- 100% remittance of earnings



## Special Economic Zones Legislation

- Legal and fiscal stability
- 5-year tax holiday
- 15% corporate tax rate thereafter
- Zero Capital Gains Tax
- Customs duty exemption on raw materials and capital equipment
- Offshore banking and transacting outside local financial system safeguards against local currency effects



## Production Sharing Agreement

- Transparent legal framework
- Transparent fiscal framework
- Clear pathway for development and infrastructure access
- Petroleum Exploration Development & Production Agreement (PEDPA) signed on 26 March 2021



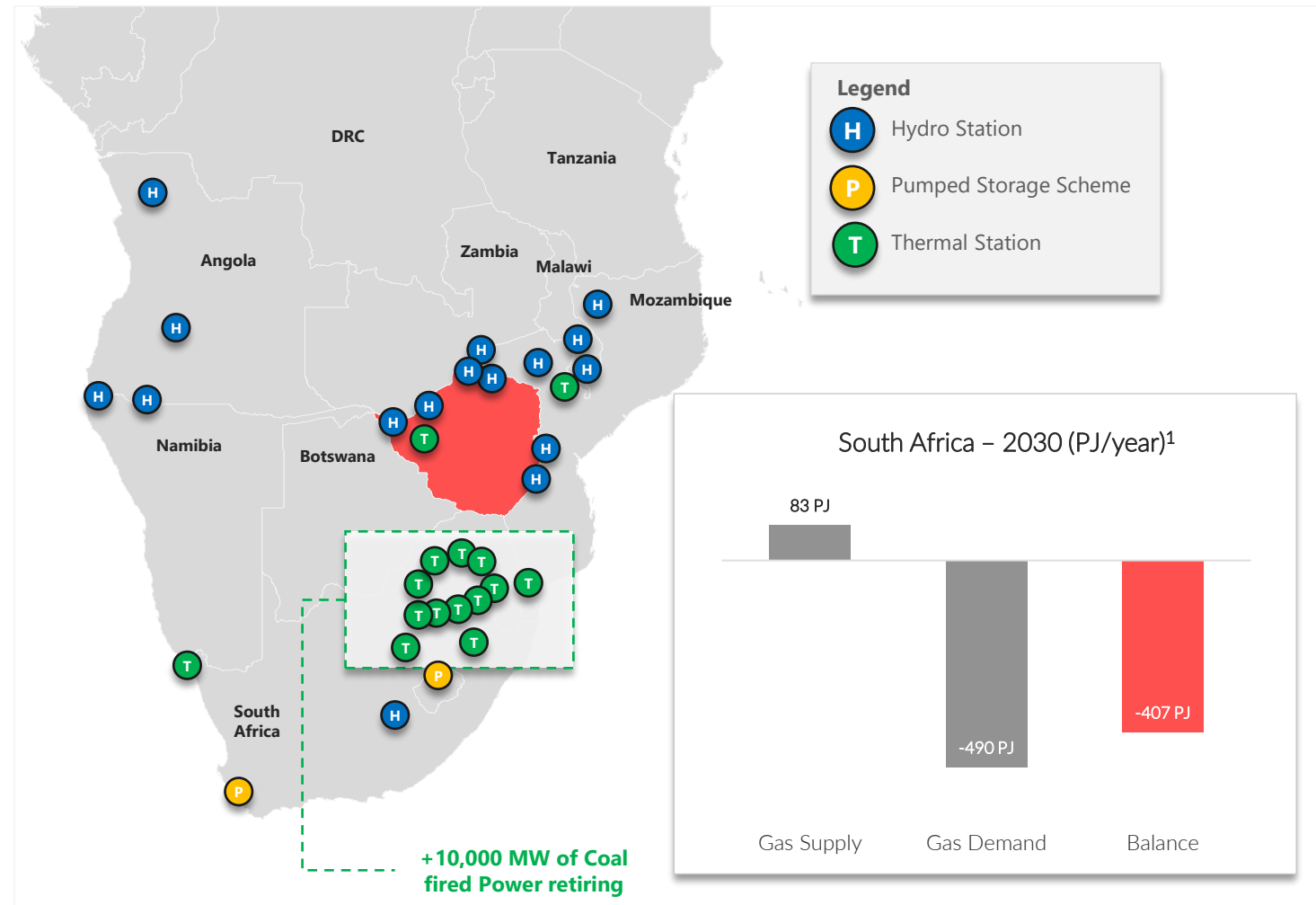
# Strategic Location – Southern Africa's Energy Crisis

## Southern Africa is facing an energy crisis with increasing shortages of electricity hampering industry and investment

- Majority of power in the region is coal and hydroelectric
- Southern African Power Pool ('SAPP') enables cross-border electricity trading between states:
  - 12 member countries
  - Servicing 230m people
  - Electricity trading run from Harare, Zimbabwe
- Spine of SAPP transmission network runs through Zimbabwe giving it the greatest access to other member states


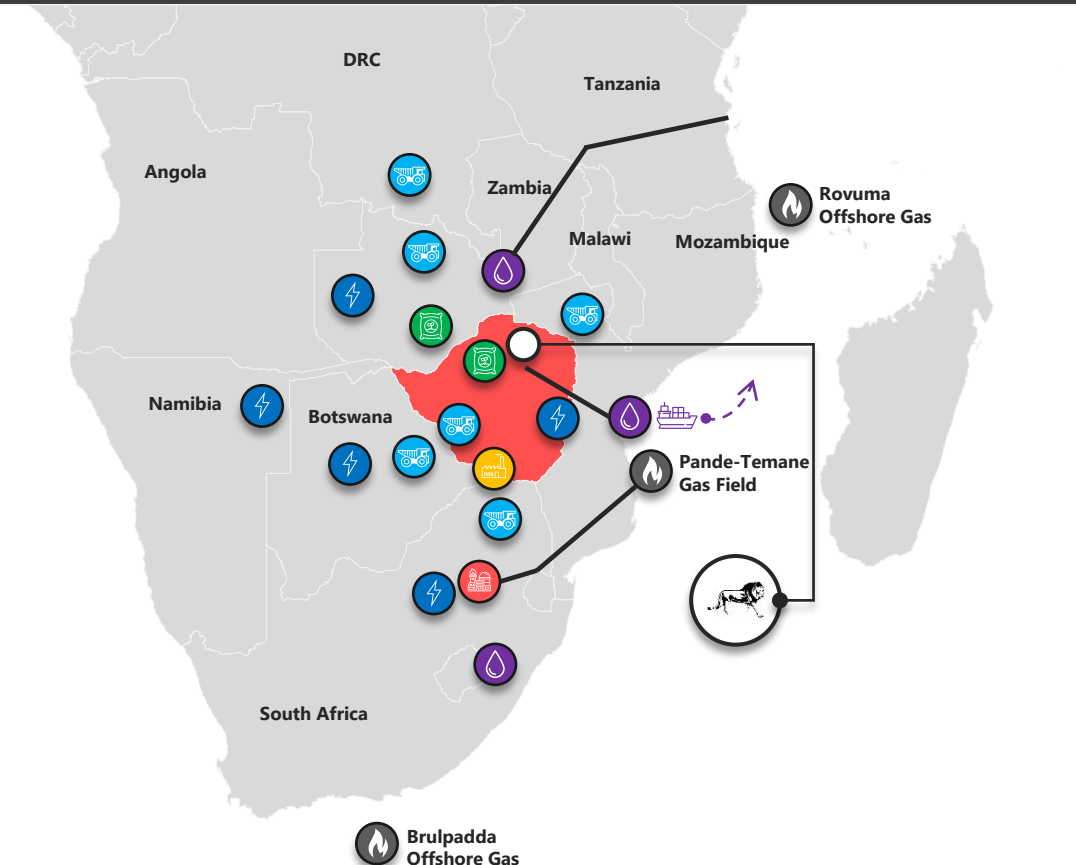





### Supply Shortage

- South Africa's coal fired power plants providing 20% (+10k MW) of power supply are being retired in coming years
- Medium-term supply gap of +15k MW, set to be filled by diesel fired power generation in the interim
- Gas to power becoming increasingly important to regional power supply
- SAPP network provides virtual pipeline to monetise gas throughout Southern Africa with SG 4571 ideally positioned to deliver gas into the power network



# Strategic Location – Major Downstream Markets

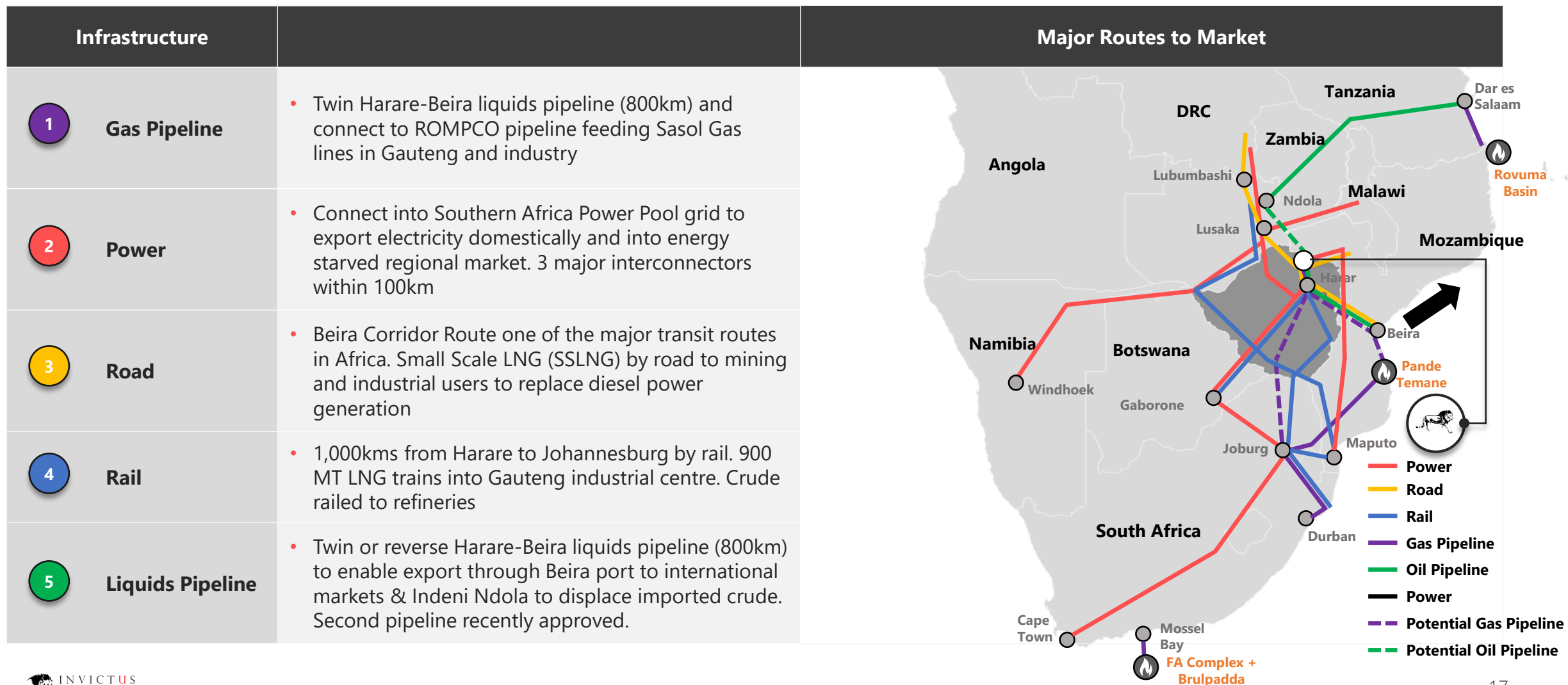
Multiple large scale power generation, mining, chemical processing & industrial downstream consumers within Southern Africa

Market		Major Southern African Markets
 <b>Power Generation</b>	<ul style="list-style-type: none"> <li>Gas to Power can be generated locally and excess exported to neighbouring countries through Southern Africa Power Pool</li> </ul>	
 <b>Petrochemicals</b>	<ul style="list-style-type: none"> <li>Sasol's Secunda facility currently supplied from declining onshore Mozambique Pande-Temane fields and coal to liquid feedstock</li> </ul>	
 <b>Fertilizer</b>	<ul style="list-style-type: none"> <li>Zimbabwe and Zambia are large agricultural based economies and significant producers of tobacco and maize. Fertilizer demand exceeds local supply</li> </ul>	
 <b>Industrial</b>	<ul style="list-style-type: none"> <li>Industrial demand in South Africa serviced from onshore Mozambique</li> </ul>	
 <b>Mining</b>	<ul style="list-style-type: none"> <li>Significant number of mining houses and smelters generate off grid power using diesel, with trucked LNG delivering 40% cost reduction</li> </ul>	
 <b>Liquid Fuel</b>	<ul style="list-style-type: none"> <li>SA generates synthetic fuel from coal with remainder imported crude oil, refined locally. Condensate / crude exported from Beira to international markets</li> </ul>	



# Strategic Location – Multiple Routes to Market

## Multiple transportation routes to market across existing infrastructure





# Cabora Bassa Partnering Opportunity

## High Impact Drilling Campaign H1 2022



First mover advantage with SG 4571 exhibiting significant scale and running room on success



Multiple offtake MOU's secured with blue-chip customers underpinning development



Strategically positioned to supply into Southern African market with existing infrastructure



Government providing supportive environment for development



Highly experienced and equity aligned Board & Management



Low-cost onshore exploration with proximity to multiple large-scale energy consumers



Seismic campaign successfully concluded and processing and interpretation ongoing



Strategic partnering opportunity available for basin opening 1H 2022 drilling campaign





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