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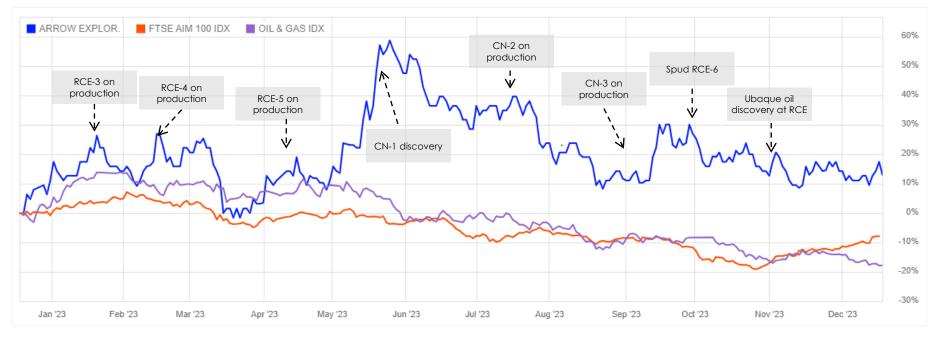
## **Arrow Exploration**

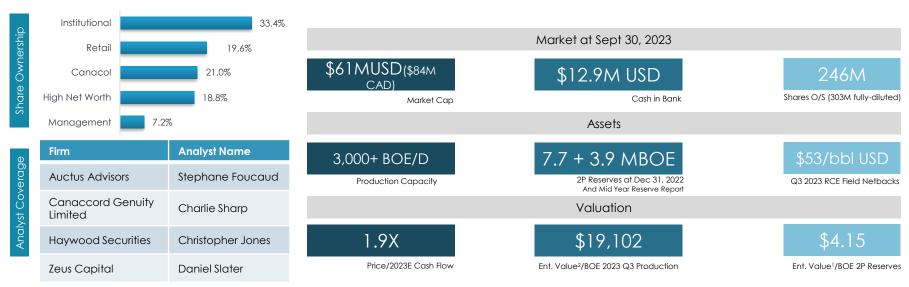
Growing & Socially-Responsible Colombia-Focused Energy Company



## Corporate Snapshot







Enterprise Value = Market Cap plus Debt minus Cash

Boury GEC December 31st, 2022 Reserve Report, Arrow's 50% interest in the Tapir block is contingent on the assignment by Ecopetrol of such interest to Arrow.



## 2023 December Budget & 2024 Forecast

Funded through cash balance and operations cash flow. No external funding sources required.

2023 – December 3 well drilling program.

2024 – 15 well drilling program.

- CN development focus
- Low Risk Exploration at Mateguafa, Baquiano, Carrizales Noroeste

#### 2023 - \$34 million capital

Budget funds targeting Colombia

#### 2024 - \$44 million capital est.

- Budget funds targeting Tapir
- \$34mm allocated to drilling
- 3 Hz wells planned with additional Hz wells on success

#### Infrastructure

- 2024 Pad upgrades at Mateguafa and new pad and road for Baquiano
- 2024 HZ well pad

## → Expected to Be Driven By Multiple Near-Term Catalysts

**Dec 2023** 

2024























## Seasoned Executive Team and Board



190+ years

8 companies Founded → grown → sold TSX / TSX-V / AIM Public company expertise

15+ O&G jurisdictions worked in



**Executive Chair** 















Initial Production







Company Cougar Hydrocarbons

Production at Exit (boe/d)

Return to Shareholders (CAGR)1

3,000

280%

**Equatorial Energy** 

0

13,000

150%

Sabretooth Energy

0

1,700

100%

... + 5 Others



### Committed to ESG Best Practices

#### **Environment**

Committed to limiting our impact on the climate, air, land and water by adhering to the highest standards of industry operating practices; support principles included in the UN's Sustainable Development Goals.

#### **Community Involvement**

Develop community partnerships based on collaboration and understanding the community's needs; encourage the contribution to communities by our employees, by ensuring opportunities to give and volunteer.

#### Stakeholder Engagement

Build positive relationships with stakeholders through communication based on honesty, transparency, proactivity, trust and respect.

#### **People**

Health and safety of all workers involved in our activities, as well as residents of the communities where we work, is a core value at Arrow; treat staff members with dignity, fairness and respect; follow applicable occupational health and safety legislation and industry recommended practices; support principles of the Universa Declaration of Human Rights.

We hire locally from areas where we operate – all our employees in Colombia, are Colombian

#### **Leadership & Governance**

Arrow's Board is responsible for the governance of the Company's ESG commitments; the leadership team is accountable for implementing the ESG commitments; expectations communicated to the Company's workforce and contractors.

### **ESG** In Action



#### Community Program: Aguachica (Communities of Loma de Corredor and La Ye Village)

In 2022, we have spent over \$450,000 on social and environmental projects. Over 1,600 Colombians employed and contracted over the last 5 year, total spent of \$3 million with local companies.



























## Colombian Oil & Gas Industry

Key Takeaways



Attractive Fiscal Terms

Government very supportive of the oil and gas industry (40%+ country's exports)

Attractive fiscal terms including 8-14% royalties on Arrow's properties

Long-term, stable outlook for Colombia, one of South America's most fiscally responsible countries



**Great**Infrastructure

Abundant infrastructure with spare pipeline capacity and no bottlenecks

Ample export capacity including two port facilities on Caribbean coast



Brent Oil Pricing

Excellent pricing based on Brent less Vasconia Differential (\$2-\$5/bbl)

Fiscalized at wellhead

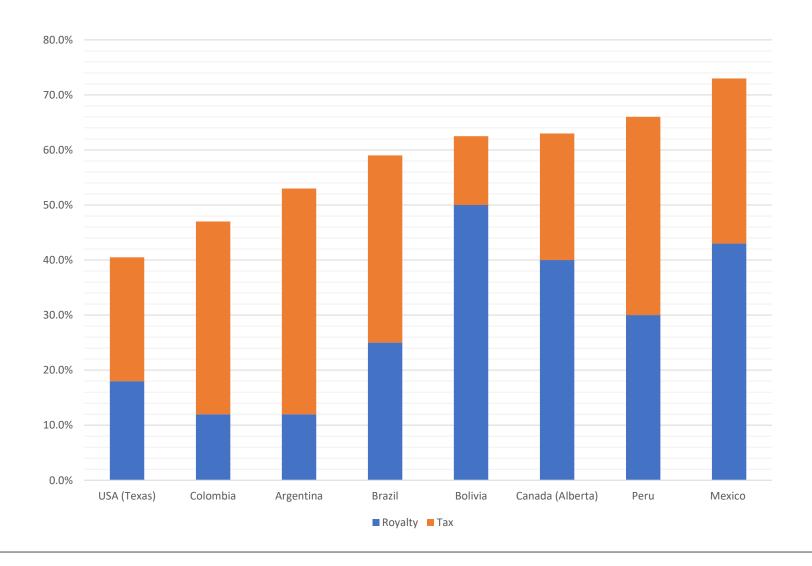
Corp Oil Netback Q3

\$77.63 field price \$9.45 royalty \$7.56 operating cost \$60.62 Netback



## Attractive Fiscal Terms

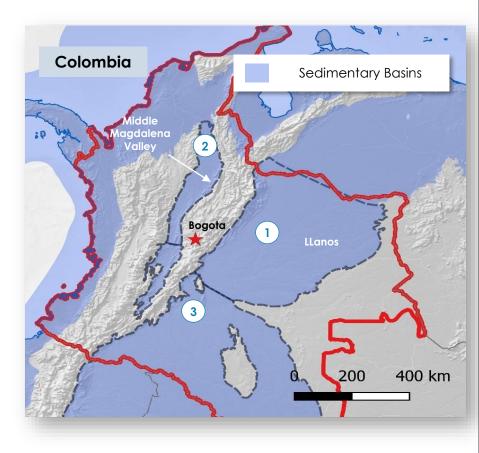
Still top decile fiscal regime worldwide.





## Asset Overview

	Asset	Country	Basin	W.I.	Current Production Capacity <sup>(3)</sup> (boe/d, net)	Operator
ssets	1. Tapir	Colombia	Llanos	<b>50</b> % <sup>(1)</sup>	2,300	Arrow <sup>(2)</sup>
Core Assets	2. Oso Pardo	Colombia	MMV	100%	130	Arrow
	3. Ombu	Colombia	Putumayo	10%	280	Emerald
	4. Alberta	Canada	WCSB	100%	300	Arrow & other
	Total Production				3,000+	



By way of a private commercial contract with the recognized interest holder before Ecopetrol S.A., Arrow is entitled to receive 50% of the production from the Tagpir black.

By way of a private commercial contract with the recognized interest holder before Ecopetrol S.A.,

Arrow is the contract operator of the Tapir block.

Estimated at Dec. 1, 2023. Production Capacity signifies how much the well is technically capable of producing and should not be construed as current production rates.

## 2022 Year-End & Aug 2023 Carrizales Norte Reserves



Price Deck



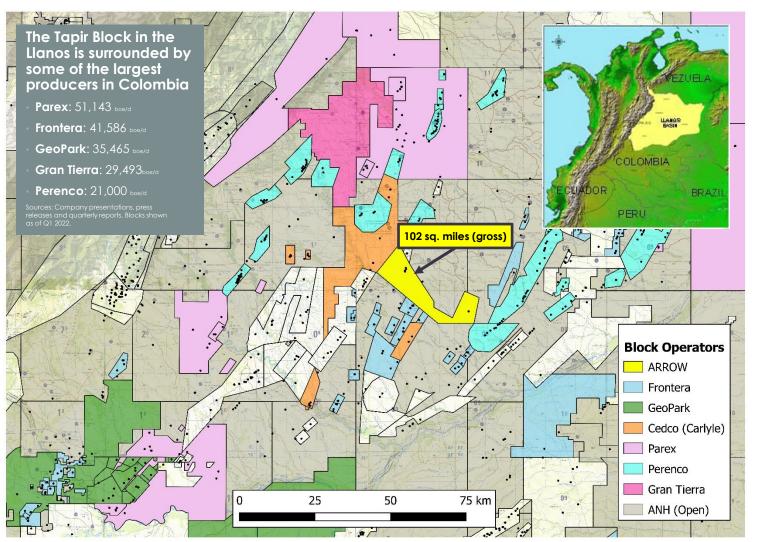


# Colombian Oil Portfolio Llanos Basin



### Llanos Basin

The 'Park Avenue' of Colombia's Oil Industry – Safe, Secure and Highly-Desirable





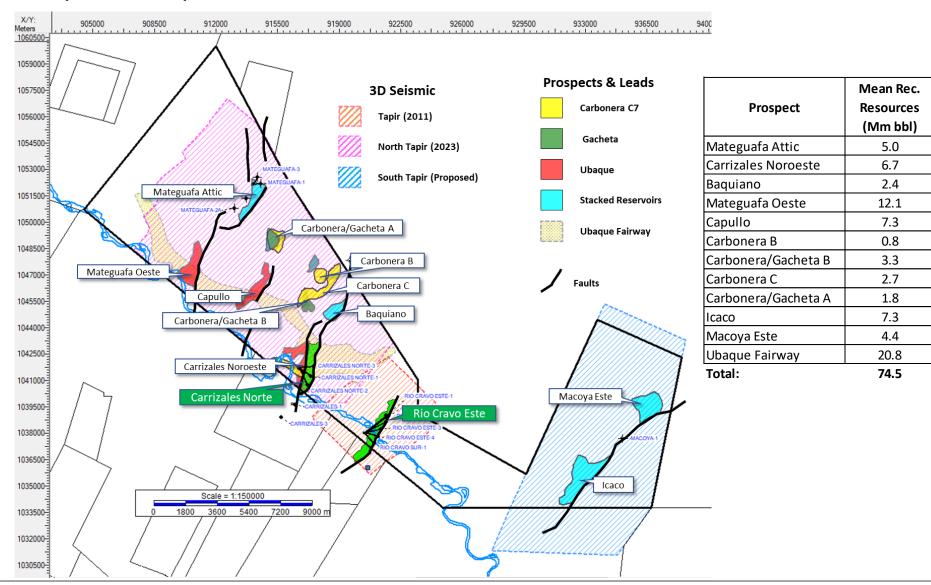




- Largely flat-lying areas with little vertical relief
- Year-round production (rainy season April-November)
- 80+ year history of hydrocarbon production
- Strong community support

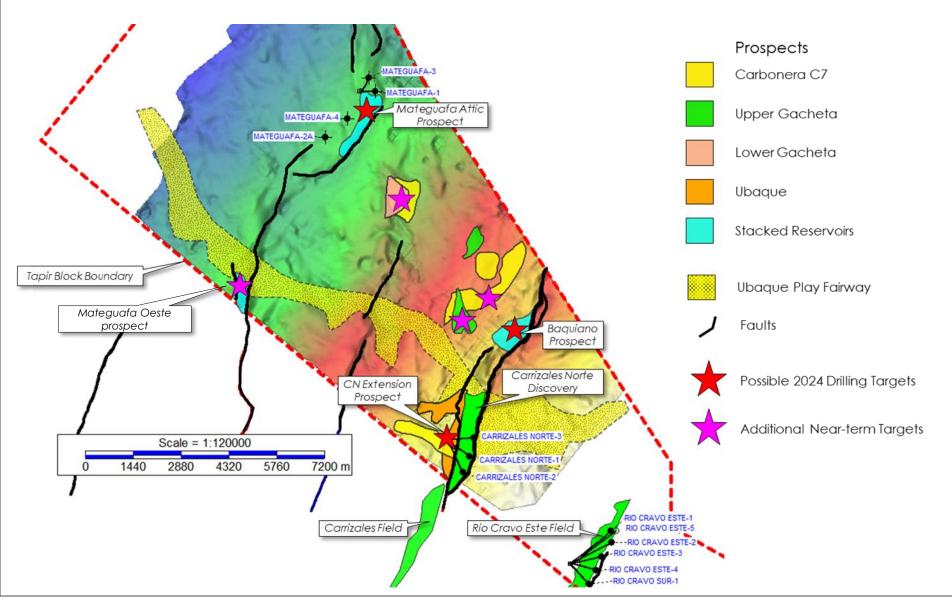


## Tapir Prospects & Leads





## New 3D Data Reveals North Tapir Prospectivity





## Tapir Block: Features and Opportunities

Key Characteristics ... Excellent subsurface fundamentals Multiple high-quality reservoir targets Multiple targets per well bore Multiple opportunities with 3D seismic coverage Substantial exploration upside

2 ... Drive Opportunities

Multiple prospects plus additional follow-up wells on success

Type-wells can deliver initial production (IP) of over 1,000 bbls/d

Historically, only 1 zone has been completed – opportunity to commingle zones

Drilling inventory to 2028 and beyond

3D seismic shoot completed
- will de-risk leads and build a drilling inventory



## Current & Future Production Tapir Block (50% W.I.)\*

#### Overview

RCE 2022 year-end 3P reserves of 4.724 MMbbls (gross) / 2.362 MMbbls (net to Arrow's W.I.)

#### 1. Rio Cravo Este (RCE)

- · 6 producing wells
- RCE-7 and RCE-8 to be on production Dec 2023

#### Carrizales Norte

- CN-1 discovery on production
- 2 development wells drilled in 2023
- 2024 15 wells, includes 3 Hz wells

#### RCE Drilling Operation | Oil Production Facilities







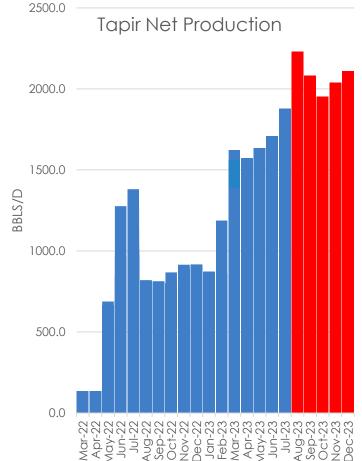
#### Tapir Block Potential Production (net to Arrow)

#### Type well

IP forecast (per zone):360 bbls/d, net Payback\*: 3 months, 61,000 bbls

CF (Yr1)\*: \$8.8M, net Well cost: \$2.0 net Opex/bbl: < \$5.00

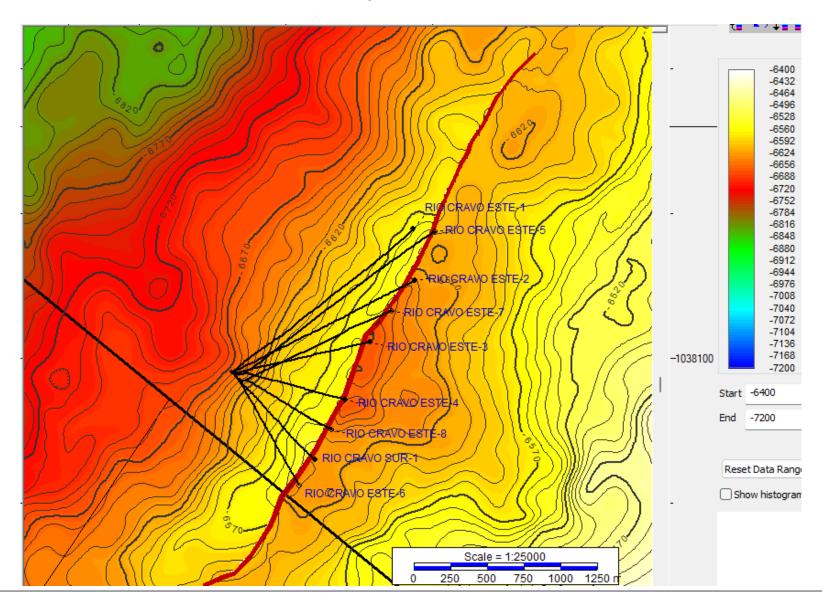
RCE Netbacks\*: Brent - \$85 = \$65



<sup>\*</sup> Arrow's 50% interest in the Tapir block is contingent on the assignment by Ecopetrol of such interest to Arrow.



## Rio Cravo Este Field-Top C7 Structure





Carrizales Norte Drilling
Operations

## Carrizales Norte Prospect

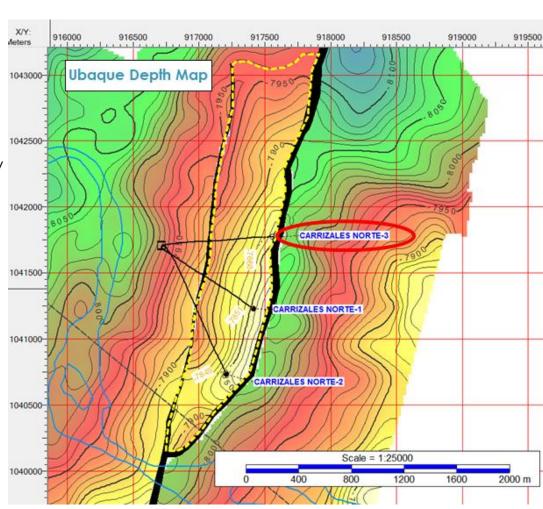


#### **Future Production**



## Carrizales Norte Discovery and Extending the Field (50% W.I.\*)

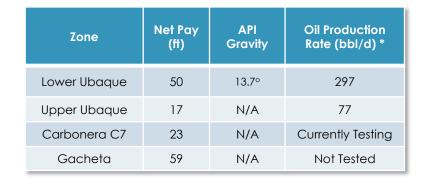
- Carrizales Norte-1 (CN-1) was spud on May 1st, 2023
- On trend with the prolific Carrizales field discovered by C&C Energia in 2007
  - 24 wells drilled to date; as of December 2019, the field had produced approximately 8.4 MMbbls oil and had achieved a peak production rate of 7,300 bbls/d
  - C&C eventually sold for \$500MM after additional discoveries in the area
- CN-1 encountered over 140 feet of net oil pay in multiple reservoir zones
- Tested over 1100 bbl/d from Ubaque formation and is now on production from the C7
- The CN-3 appraisal well drilled in June
- The well encountered 98 total of feet net oil pay (TVD) within the Carbonera C7, Gacheta, and Ubaque formations
- Both CN-1 and CN-3 are currently producing from the C7 zone

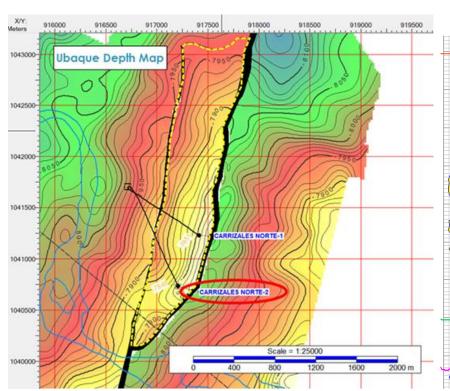


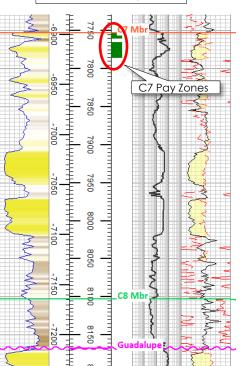


## CN-2: Ubaque

- The CN-2 appraisal well spud on July 20<sup>th</sup> and reached total depth on July 30th
- The well encountered a total of 149 feet net oil pay (TVD) within the Carbonera C7, Gacheta, and Ubaque formations
- CN-3 has confirmed the continuity of the thick Lower Ubaque pay sand to the north, with similar reservoir quality to the previous two wells. The well is currently testing the C7 zone

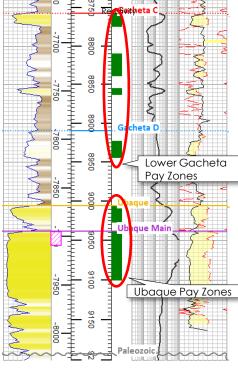






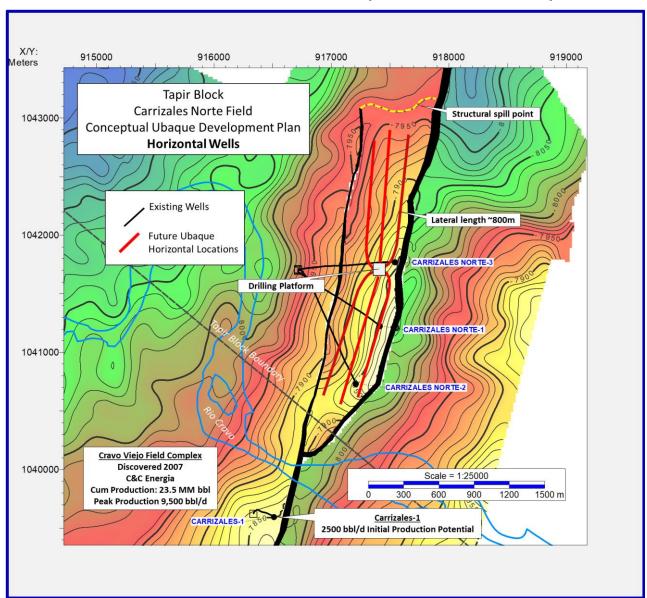
**C7-Guadalupe Log Curves** 







## Carrizales Norte Ubaque Development Concept

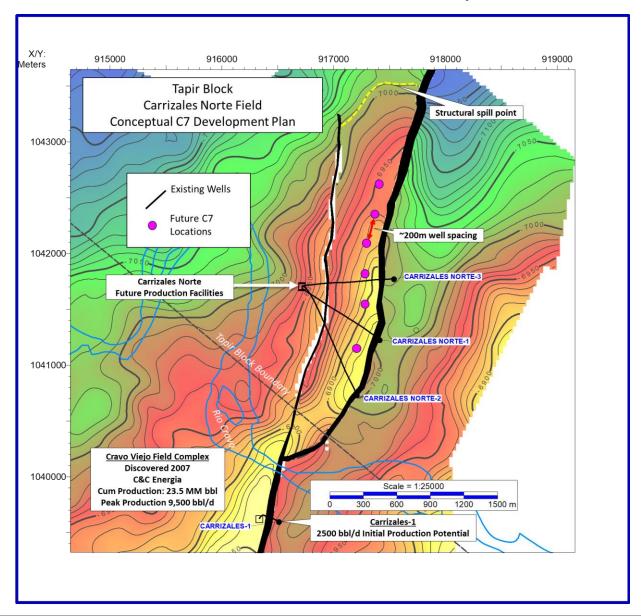


Horizontal Well Concept

- expect 50% additional cost compared to a vertical well
- expect 300% production compared to a vertical well

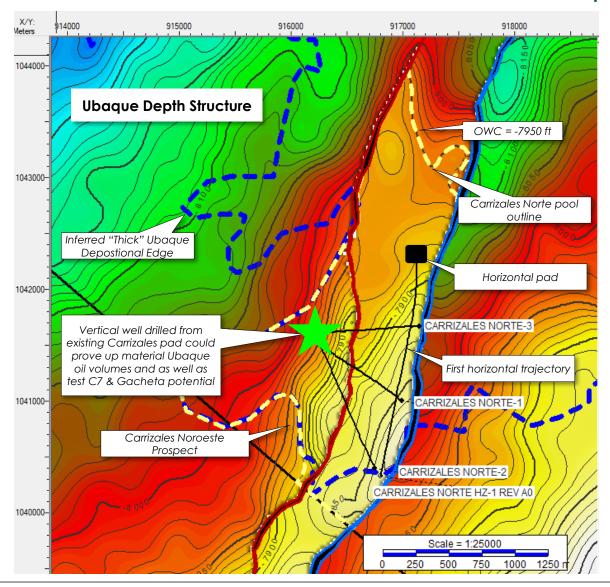


## Carrizales Norte C7 Development Concept



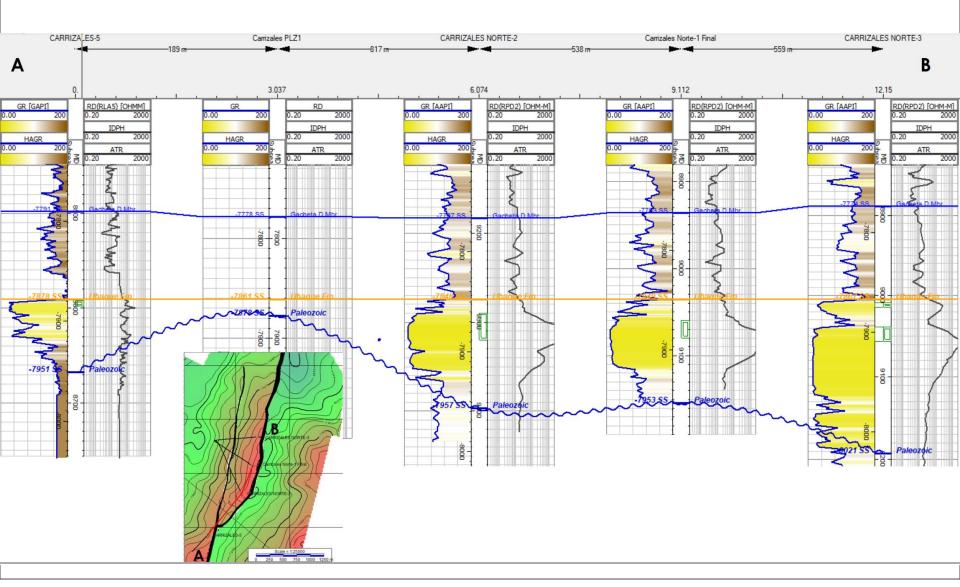


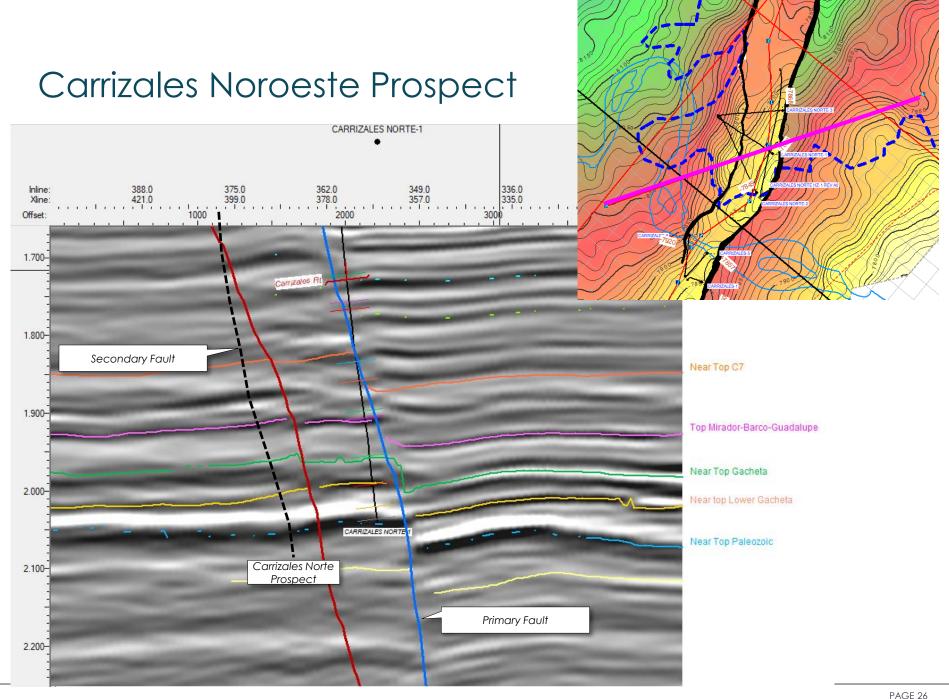
## Carrizales Norte Field: Revised Interpretation

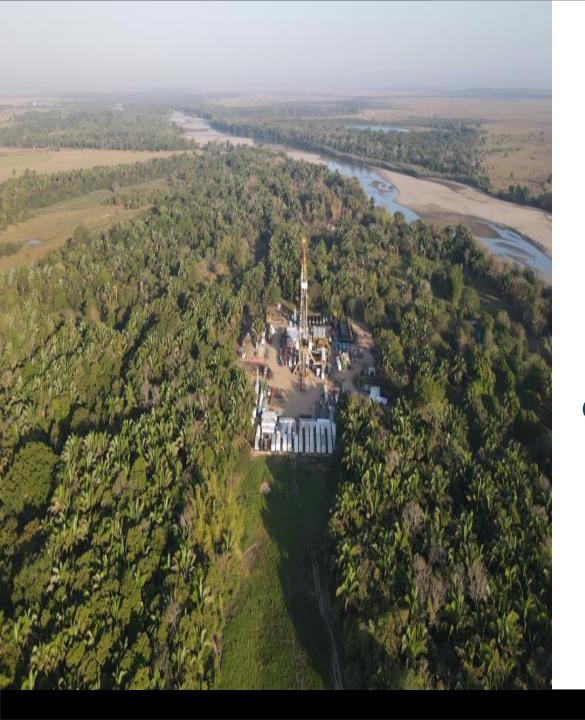




## Carrizales Norte Ubaque Play Concept







# Colombian Oil Portfolio MMV Basin



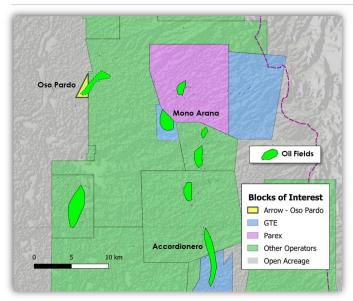
#### **Current Production**

## Oso Pardo Field (100% W.I.)

#### Overview

- Discovered in 2013 by Canacol; discovery well (Oso Pardo-1) had an IP of 200 bbls/d from stacked sands of the Umir formation
- 2 appraisal wells drilled in 2014; 150 ft proven oil column to Lowest Known Oil (LKO)
- Accordionero (2P reserves of 66 MMbbls; current production of 16,000 boe/d) located 25 km to SE
- 2023 OP-3 drilled and being completed. OP-4 being drilled
- Independent study by Gaffney, Cline & Associates supports a much larger field area than originally interpreted by Canacol

#### **Location | Map**



- Covered by 3D seismic – exclusive to Arrow
- Request to extend
  Oso Pardo
  Production License
  has been formally
  submitted to the
  ANH.

#### Oso Pardo Site Photos





#### Future Opportunity Not Factored Into Production Forecast

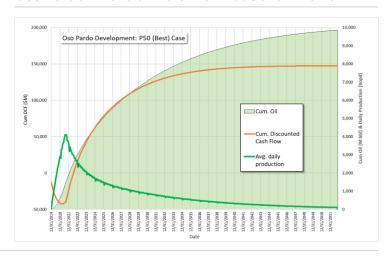
## Oso Pardo Extension (100% W.I.) Existing block does not require a bid process

## Overview

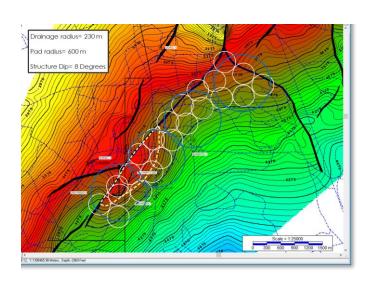
• Gaffney, Cline & Associates reserve study\* snapshot:

GCA Cases	Oil EUR/well (Mbbl)	Capex (\$M)	Pre-Tax NPV10% (\$M)
Low	343	\$65.5	\$24.9
Expected	480	\$122.7	\$146.5
High	705	\$251.1	\$547.8

#### Oso Pardo Extension Potential Production Profile\*



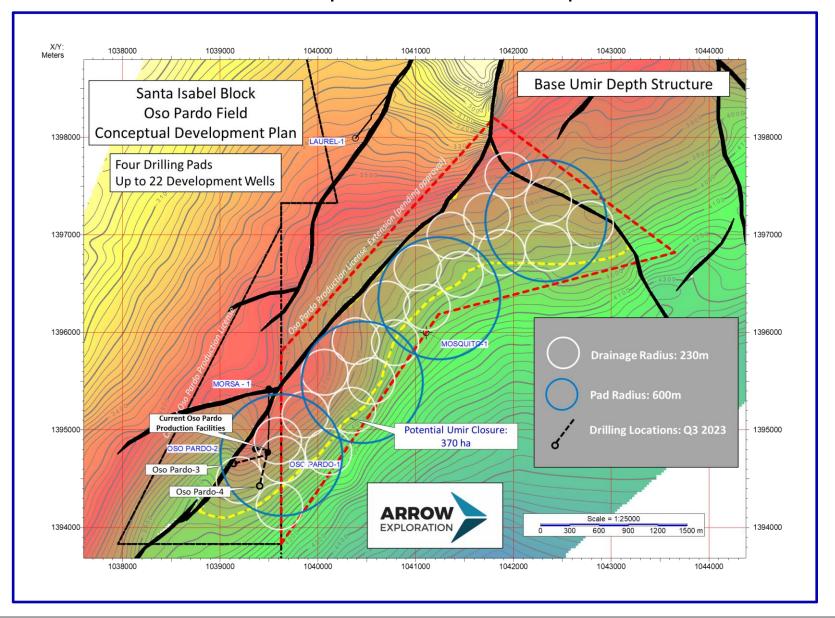
#### **Potential Field Development Configuration**



- Leveraging off the company's existing Oso Pardo development
- Arrow has applied for an extension to its existing license to cover the entire potential Oso Pardo development; Canacol has agreed to assist Arrow with obtaining the extension
- Based on P50 development size of 20 wells, Oso Pardo could contain 9.6MMbls
- Potential capex of \$4.0M per well, ex. well-pad\*
- Overall development has been modelled by Gaffney Cline as reaching as much as 4,000 bbls/d, 100% WI, in the P50 case\*
- Opportunity for Arrow to develop at 100%

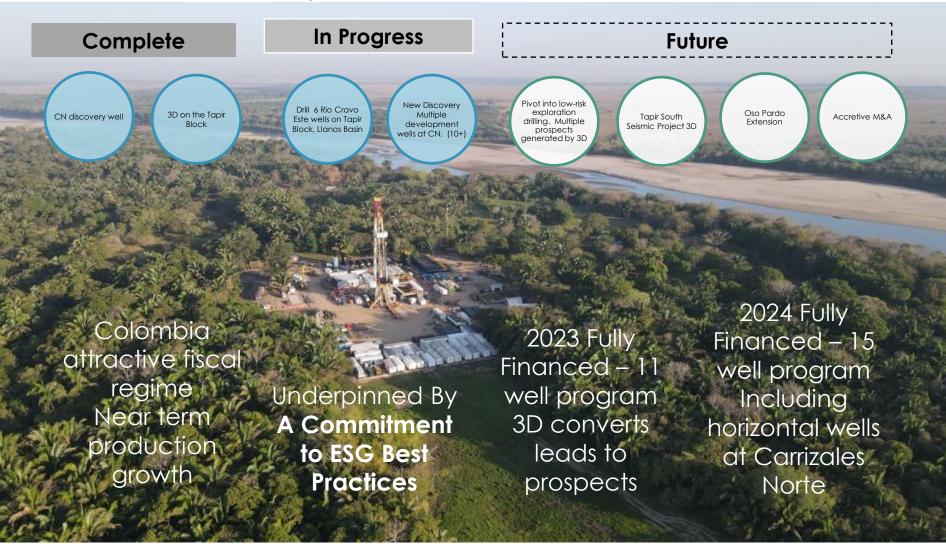


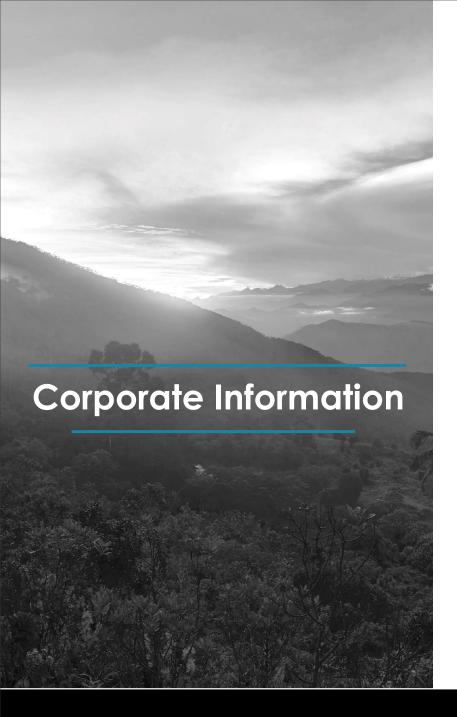
## Oso Pardo Development Concept





## Near Time Catalyst







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