



Neuquen Basin vs Permian Basin, and the winner is ...

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Presentation highlights

Neuquen Basin vs Permian Basin, and the winner is ...



Key technical similarities and differences at basin level Areal distribution and location



Source: Boundaries of the Permian Basin extent and Permian subbasins are from US Energy Information Administration (2017)

- Permian basin 27.000 square miles (65.000 sq km)
- Neuquen basin 1 1.600 square miles (30.000 sq km)

Neuquen <50% of Permian acreage</p>

Neuquen Basin



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Permian Basin

Neuquen Basin

	Permian	Neuquen	
Number Operators	~380	~20	
Number Landing Zones	5-12	3-8	
Reservoir Props per Zone	Similar for both basins	Similar for both basins	
Well Performance	Similar for both basins	Similar for both basins. Shorter learning curve based Permian knowledge	
Infrastructure	Decentralized 3rd party processing and transporting facilities	Each operator design, build, and operate their own processing facilities; just a few centralized transporting facilities	
Total Current Cum (billion bbls oil)	~30	~0.2	

Key technical similarities and differences at basin level Stratigraphy and Producing Units



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Historical development pace and achievements



- The Permian basin has a total number of unconventional wells of about 45.000 wells (~80% of them are horizontal) and the current active drilling rigs are around 350
- Neuquen basin with only 1.250 unconventional wells (~60% horizontal) and around 40 active drilling rigs.
- Total current cum: ~30.0 billions bbls oil vs Neuquen ~0.2 billions bbls oil (0.6% over Permian)

Potential size of the remaining price



Recoverable reserves:

- Permian basin are about 105 billion barrels (~30% of it already produced)
- Neuquen basin 16 billion barrels (only ~1% of it already produced)

Challenges in Argentina to replicate US

Critical Factor	Current	Trend	Comments
Resource base quality			Similar and comparable with Permian's
Resource base quantity			Important remaining resources
Average well performance			Slightly better than Permian's
Cooperative government		-	Provincial / federal governments
Service sector capacity	•		Expected to increase with de-risking and de-bottlenecking
Innovation via completition		1	Signs of industry cooperating locally and with Permian
Industry willingness to invest			Currently increasing with de-risking and de-bottlenecking
Favorable hydrocarbon prices		+	Better international prices / less government intervention
Easy to market	•		Going on and already committed investments
Incentives for unconventionals			Government becoming responsive
Good shape			

Closing Remarks

Neuquen Basin vs Permian, and the winner is ...

- ✓ Both basins have excellent business cases and demonstrated important remaining resources
- Both basins benefit from sharing same operators / services companies with common lesson learned and best practices
- Sharing developing and implementing creative tools in drilling and completion create costs and time reductions in both basins
- ✓ Proved high performance and efficiency in companies organized as factory model approach
- ✓ Vaca Muerta has half of the acreage but only 4% has been drilled and 1% of cum production
- ✓ But as in every match, there are other factors Argentina need to improve:
 - Access to market, both from equipment, tools, and materials, as well as customers
 - Local infrastructure might act as a massive development bottleneck
 - Administration incentives to producers and develop proper stable regulations for shale

*US Permian is the business model to be followed if Vaca Muerta is to be successful since both have similar developing dynamics and rock quality