

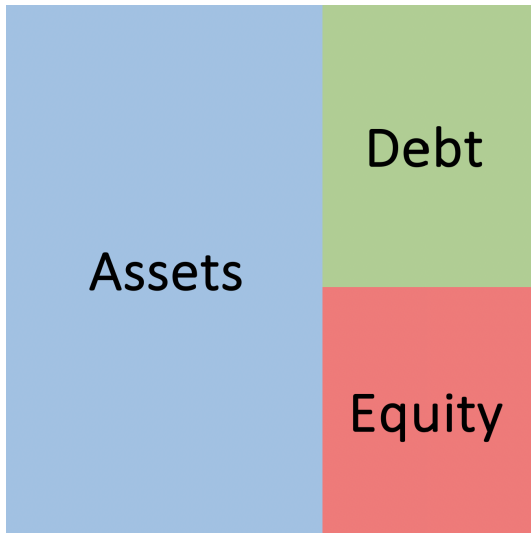
# Debt Financing and Risk Management

BABENKO, BESSEMBINDER, AND TSERLUKEVICH

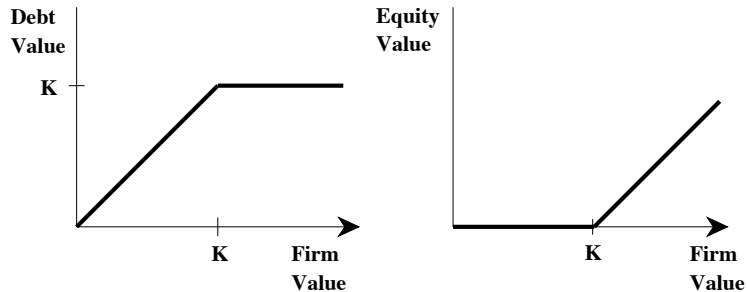
Discussion by Paul Whelan  
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Conference on Derivatives and Volatility  
2021

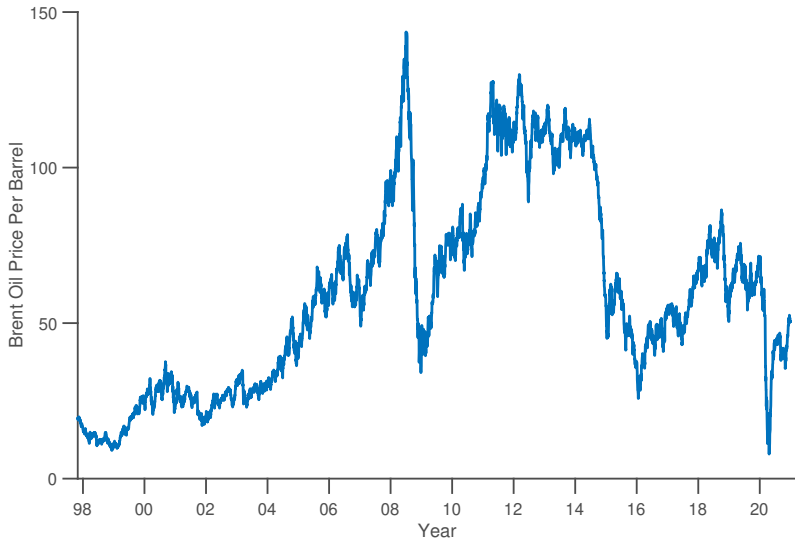
## Capital Structure:

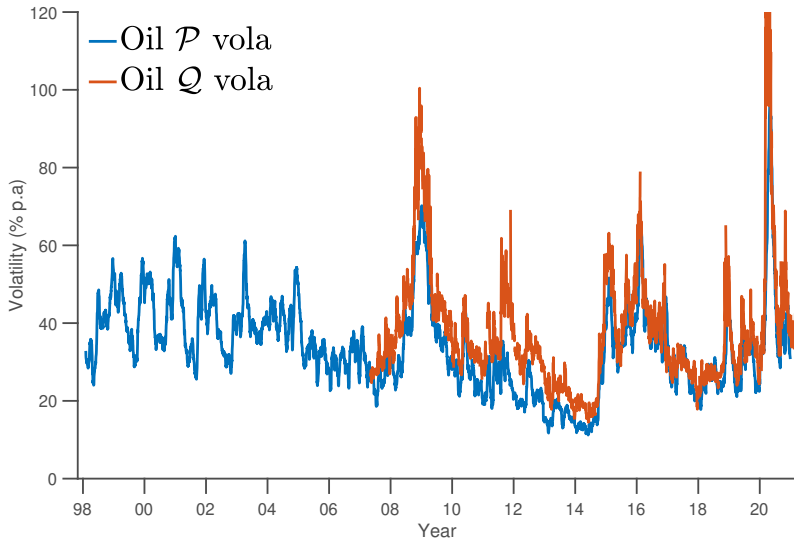


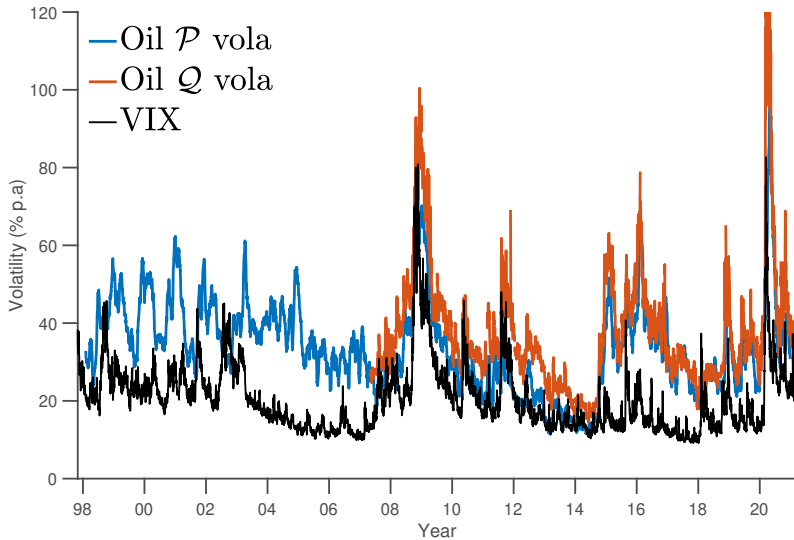
## Merton & Hock Sticks:



asset volatility is good for producers and bad for lenders → a role for covenants







## Key Takeaways:

- Many papers have asked the (normative) question:

(Why) should firms hedge?

- On one hand, why should they? Can't shareholders hedge themselves?
- On the other hand, hedging can mitigate 'costly' lending relationships
- **This paper asks the (descriptive) question:**

DO firms hedge?

- This answer is: yes they do.
- And ... it's welfare enhancing
- lowers credit risk & drove a sector wide credit boom

## More details:

- studies bank lending and derivative positions of U.S oil and gas producers
- Demonstrates that **nowadays** loan contracts often involve covenants requiring **specific** hedging policies
- Using fracking demonstrates casualty: debt issuance  $\leftrightarrow$  hedging
- covenants are more binding for firms with higher expected default costs
- firms that hedged borrowed at lower rates and performed better during COVID.

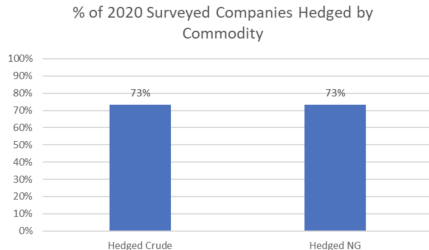


## Questions:

- 1 How do lenders come to specific numbers in their covenants? Or in practice are these negotiated? Are they at all 'optimal' in any sense?
  - *'Our credit agreement requires that we hedge at least 75% but not more than 80% of projected oil production from our existing proved producing mineral interests for not less than 30 months.'* Exco Resources Inc.
- 2 I can't get my head around the fracking argument: how does this imply causality? And which way does it run?
- 3 Are there wider asset pricing implications?
  - price pressure in options markets can impact the underlying
  - The slope of the futures curve
  - Backwardation ↔ contango

## Questions:

- 4 What about these findings is surprising? Put differently, would practitioners find these findings surprising?  
*'Hedging remains a mainstay activity for many oil and gas producers'* ,  
<https://www.worldoil.com>



- 5 Maybe I missed it. But what do we know about instrument types and which company use choose what?

## Conclusion

- corporate finance meets derivatives meets risk management
- very interesting and well developed
- clearly an important contribution
- read it !!!