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IMPACTS OF EXTERNAL FINANCING ON THE RISK LEVEL OF VIET NAM NATURAL GAS AND OIL INDUSTRY DURING AND AFTER THE GLOBAL CRISIS 2007-2009

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ABSTRACT

This paper estimates the impacts of external financing on market risk for the listed firms in the Viet nam natural gas and oil industry, esp. after the financial crisis 2007-2009.

First, by using quantitative and analytical methods to estimate asset and equity beta of total 15 listed companies in Viet Nam natural gas and oil industry with a proper traditional model, we found out that the beta values, in general, for many institutions are acceptable.

Second, under 3 different scenarios of changing leverage (in 2011 financial reports, 30% up and 20% down), we recognized that the risk level, measured by equity and asset beta mean, decreases (0,231) when leverage increases to 30% and vice versa.

Third, by changing leverage in 3 scenarios, we recognized the dispersion of risk level decreases (measured by equity beta var) if the leverage increases to 30%.

Finally, this paper provides some outcomes that could provide companies and government more evidence in establishing their policies in governance.

Keywords:

Equity beta, financial structure, financial crisis, risk, external financing, gas and oil industry.

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1. INTRODUCTION

Financial system development has positively related to the economic growth, throughout many recent years, and Viet Nam natural gas and oil industry is considered as one of active economic sectors.

This paper is organized as follow. The research issues and literature review will be covered in next sessions 2 and 3, for a short summary. Then, methodology and conceptual theories are introduced in session 4 and 5. Session 6 describes the data in empirical analysis. Session 7 presents empirical results and findings. Next, session 8 covers the analytical results. Then, session 9 presents analysis

of risk. Lastly, session 10 and 11 will present discussion and conclude with some policy suggestions. This paper also supports readers with references, exhibits and relevant web sources.

Research issues:

We mention some issues on the estimating of impacts of external financing on beta for listed natural gas and oil companies in Viet Nam stock exchange as following:

Issue 1: Whether the risk level of natural gas and oil firms under the different changing scenarios of leverage increase or decrease so much.

Issue 2: Whether the dispersed distribution of beta values become large in the different changing scenarios of leverage estimated in the natural gas and oil industry. Beside, we also propose some hypotheses for the above issues:

Hypothesis 1: because using leverage may strongly affect business returns, changing leverage scenarios could strongly affect firm risk.

Hypothesis 2: as external financing is vital for the business development, there will be large disperse in beta or risk values estimated.

2. LITERATURE REVIEW

Scott (1976) indicated that the value of tax benefit is a major factor in capital structure. Black (1976) proposes the leverage effect to explain the negative correlation between equity returns and return volatilities. Mishkin (1983) analysis suggests that the negative relation between excess leverage and future returns can be explained by the market's failure to react promptly to the information in excess leverage about the firm's probability of distress and future asset growth. Levine (1991) said liquid markets can enable investment in long-term investment projects while at the same time allowing investors to have access to their savings at short-term notice. King and Levine (1993) stated financial institutions and markets allow cross-sectional diversification across projects, allowing risky innovative activity.

Next, Peter and Liuren (2007) mentions equity volatility increases proportionally with the level of financial leverage, the variation of which is dictated by managerial decisions on a company's capital structure based on economic conditions. And for a company with a fixed amount of debt, its financial leverage increases when the market price of its stock declines. Then, Chava and Purnanandam (2009) mentioned leverage is positively correlated with financial distress and distress intensity is negatively related to future returns.

Reinhart and Rogoff (2009) pointed the history of finance is full of boom-and-bust cycles, bank failures, and systemic bank and currency crises. Adrian and Shin (2010) stated a company can also proactively vary its financial leverage based on variations on market conditions.

Then, Harry and Rene (2013) pointed that because debt-equity neutrality assigns zero way to the social value of liquidity, it is an inappropriately equity-biased baseline for assessing whether the high leverage ratios of real-world banks are excessive or socially destructive.

Finally, financial leverage can be considered as one among many factors that affect business risk of natural gas and oil firms.

The impact of financial leverage on the economy

A sound and effective financial system has positive effect on the development and growth of the economy. Financial institutions not only help businesses to reduce agency problems but also enable them to enhance liquidity capacity and long-term capital. And financial innovation also reduces the cost of diversification. So, finance and growth has interrelated.

In a specific industry such as natural gas and oil industry, on the one hand, using leverage with a decrease or increase in certain periods could affect tax obligations, revenues, profit after tax and technology innovation and compensation and jobs of the industry.

During and after financial crises such as the 2007-2009 crisis, there raises concerns about the role of financial leverage of many countries, in both developed and developing markets. On the one hand, lending programs and packages might support the business sectors. On the other hand, it might create more risks for the business and economy.

3. MATERIALS AND METHODS

In order to calculate systemic risk results and leverage impacts, in this study, we use the live data during the crisis period 2007-2011 from the stock exchange market in Viet Nam (HOSE and HNX and UPCOM).

In this research, analytical research method is used, philosophical method is used and specially, leverage scenario analysis method is used. Analytical data is from the situation of listed natural gas and oil firms in VN stock exchange and current tax rate is 25%.

Finally, we use the results to suggest policy for both these enterprises, relevant organizations and government.

4. RESULTS AND DISCUSSIONS

The research sample has total 15 listed firms in the natural gas and oil market with the live data from the stock exchange.

Firstly, we estimate equity beta values of these firms and use financial leverage to estimate asset beta values of them. Secondly, we change the leverage from what reported in F.S 2011 to increasing 30% and reducing 20% to see the sensitivity of beta values. We found out that in 3 cases, asset beta mean values are estimated at 0,381, 0,231 and 0,485 which are negatively correlated with the leverage. Also in 3 scenarios, we find out equity beta mean values (0,835, 0,802 and 0,857) are also negatively correlated with the leverage. Leverage degree changes definitely has certain effects on asset and equity beta values.

Empirical Research Findings and Discussion

In the below section, data used are from total 15 listed natural gas and oil companies on VN stock exchange (HOSE and HNX mainly). In the scenario 1, current financial leverage degree is kept as in the 2011 financial statements which is used to calculate market risk (beta). Then, two (2) FL scenarios are changed up to 30% and down to 20%, compared to the current FL degree.

Market risk (beta) under the impact of tax rate, includes: 1) equity beta; and 2) asset beta.

A) Scenario 1: current financial leverage (FL) as in financial reports 2011 In this case, all beta values of 15 listed firms on VN natural gas and oil market as following:

Table 1: Market risk of listed companies on VN natural gas and oil market

| Order No. | Company stock code | Equity beta | Asset beta (assume debt beta = 0) | Note | Financial leverage | | | | | |
|--------------|--------------------------|----------------|-----------------------------------|-------------------|-----------------------|--|--|--|--|--|
| 1 | ASP | 0,496 | 0,119 | PGC as comparable | 60,8% | | | | | |
| 2 | CNG | 0,147 | 0,086 | ASP as comparable | 33,4% | | | | | |
| 3 | GAS | -0,090 | -0,049 | NT2 as comparable | 36,2% | | | | | |
| 4 | HFC | 0,546 | 0,351 | | 28,5% | | | | | |
| 5 | нтс | 0,546 | 0,225 | MTG as comparable | 47,0% | | | | | |
| 6 | MTG | 0,773 | 0,387 | | 39,9% | | | | | |
| 7 | PCG | 0,443 | 0,278 | MTG as comparable | 29,7% | | | | | |
| 8 | PGC | 0,869 | 0,418 | | 41,5% | | | | | |
| 9 | PGD | 1,171 | 0,691 | | 32,8% | | | | | |
| 10 | PTH | 0,359 | 0,146 | HFC as comparable | 47,4% | | | | | |
| 11 | SFC | 0,853 | 0,650 | | 19,1% | | | | | |
| 12 | TMC | 0,777 | 0,296 | | 49,5% | | | | | |
| 13 | VMG | 2,883 | 1,444 | | 39,9% | | | | | |
| 14 | PGS | 1,013 | 0,207 | | 63,6% | | | | | |
| 15 | PVG | 1,743 | 0,465 | | 58,7% | | | | | |
| | 1 | ı | ı | Average | 41,9% | | | | | |
| | | | | · | | | | | | |

B) Scenario 2: financial leverage increases up to 30% If leverage increases up to 30%, all beta values of total 15 listed firms on VN natural gas and oil market as below:

Table 2: Market risks of listed natural gas and oil firms (case 2)

| Order No. | Company stock code | Equity beta | Asset | Note | Financial leverage | |
|--------------|--------------------------|----------------|----------|-------------------|-----------------------|--|
| | | | | PCC | | |
| 1 | ASP | 0,496 | 0,006 | PGC as comparable | 98,8% | |
| | | | | ASP as | | |
| 2 | CNG | 0,008 | 0,004 | comparable | 54,2% | |
| | | | | NT2 as | | |
| 3 | GAS | -0,073 | -0,030 | comparable | 58,8% | |
| 4 | HFC | 0,469 | 0,251 | | 46,4% | |
| | | | | MTG as | | |
| 5 | HTC | 0,469 | 0,111 | comparable | 76,3% | |
| 6 | MTG | 0,773 | 0,272 | | 64,9% | |
| | | | | MTG as | | |
| 7 | PCG | 0,324 | 0,168 | comparable | 48,2% | |
| 8 | PGC | 0,869 | 0,282 | | 67,5% | |
| 9 | PGD | 1,171 | 0,547 | | 53,3% | |
| | | | | HFC as | | |
| 10 | PTH | 0,253 | 0,058 | comparable | 77,1% | |
| 11 | SFC | 0,853 | 0,589 | | 31,0% | |
| 12 | TMC | 0,777 | 0,152 | | 80,4% | |
| 13 | VMG | 2,883 | 1,012 | | 64,9% | |
| 14 | PGS | 1,013 | -0,034 | | 103,4% | |
| 15 | PVG | 1,743 | 0,081 | | 95,3% | |
| | 1 | | <u> </u> | Average | 68,0% | |

C) Scenario 3: leverage decreases down to 20%

If leverage decreases down to 20%, all beta values of total 15 listed firms on the natural gas and oil market in VN as following:

Table 3: Market risk of listed natural gas and oil firms (case 3)

| Order No. | Company stock code | Equity beta | Asset beta (assume debt beta = 0) | Note | Financial leverage | |
|--------------|--------------------------|----------------|-----------------------------------|-------------------|-----------------------|--|
| 1 | ASP | 0,496 | 0,195 | PGC as comparable | 60,8% | |
| 2 | CNG | 0,229 | 0,153 | ASP as comparable | 33,4% | |
| 3 | GAS | -0,100 | -0,064 | NT2 as comparable | 36,2% | |
| 4 | HFC | 0,595 | 0,425 | | 28,5% | |
| 5 | нтс | 0,595 | 0,316 | MTG as comparable | 47,0% | |
| 6 | MTG | G 0,773 | | | 39,9% | |
| 7 | PCG | 0,516 | 0,363 | MTG as comparable | 29,7% | |
| 8 | PGC | 0,869 | 0,508 | | 41,5% | |
| 9 | PGD | 1,171 | 0,787 | | 32,8% | |
| 10 | PTH | 0,435 | 0,229 | HFC as comparable | 47,4% | |
| 11 | SFC | 0,853 | 0,690 | | 19,1% | |
| 12 | TMC | 0,777 | 0,393 | | 49,5% | |
| 13 | VMG | 2,883 | 1,732 | | 39,9% | |
| 14 | PGS | 1,013 | 0,368 | | 63,6% | |
| 15 | PVG | 1,743 | 0,720 | | 58,7% | |
| | 1 | | <u> </u> | Average | 41,9% | |

All three above tables and data show that values of equity and asset beta in the case of increasing leverage up to 30% or decreasing leverage degree down to 20% have certain fluctuation.

Comparing statistical results in 3 scenarios of changing leverage:

Table 4: Statistical results (FL in case 1)

| Statistic results | Equity beta | Asset beta (assume debt beta = 0) | Difference | | |
|------------------------|----------------|-----------------------------------|------------|--|--|
| MAX | 2,883 | 1,444 | 1,4396 | | |
| MIN | -0,090 | -0,049 | -0,0406 | | |
| MEAN | 0,835 | 0,381 | 0,4543 | | |
| VAR | 0,5117 | 0,1268 | 0,3849 | | |
| Note: Sample size : 15 | | | | | |

Table 5: Statistical results (FL in case 2)

| Statistic results | Equity beta | Asset beta (assume debt beta = 0) | Difference | | | |
|------------------------|----------------|-----------------------------------|------------|--|--|--|
| MAX | 2,883 | 1,012 | 1,8715 | | | |
| MIN | -0,073 | -0,034 | -0,0386 | | | |
| MEAN | 0,802 | 0,231 | 0,5707 | | | |
| VAR | 0,5463 | 0,0829 | 0,4634 | | | |
| Note: Sample size : 15 | | | | | | |

Table 6: Statistical results (FL in case 3)

| | | Asset | |
|-----------|--------|---------|------------|
| | | beta | |
| | | (assume | |
| | | debt | |
| Statistic | Equity | beta = | |
| results | beta | 0) | Difference |
| | | | |

| MAX | 2,883 | 1,732 | 1,1517 | | |
|------------------------|--------|--------|---------|--|--|
| MIN | -0,100 | -0,064 | -0,0363 | | |
| MEAN | 0,857 | 0,485 | 0,3714 | | |
| VAR | 0,4928 | 0,1696 | 0,3232 | | |
| Note: Sample size : 15 | | | | | |

Based on the above results, we find out:

Equity beta mean values in all 3 scenarios are low (< 0,9) and asset beta mean values are also small (< 0,5) although max equity beta values in some cases might be higher than (>) 1. In the case of reported leverage in 2011, equity beta value fluctuates in an acceptable range from -0,09 (min) up to 2,883 (max) and asset beta fluctuates from -0,049 (min) up to 1,444 (max). If leverage increases to 30%, equity beta moves in a range from -0,073 (min) up to 2,883 (max unchanged) and asset beta moves from -0,034 (min) up to 1,012 (max). Hence, we note that there is an increase in equity beta min value if leverage increases. When leverage decreases down to 20%, equity beta value still fluctuates in a range from -0,1 to 2,883 (unchanged) and asset beta changes from -0,064 (min) up to 1,732 (max). So, there is a small decrease in asset beta min value when leverage decreases in scenario 3.

Beside, Exhibit 5 informs us that in the case 30% leverage up, average equity beta value of 15 listed firms decreases down to -0,033 while average asset beta value of these 15 firms decreases little more up to -0,15. Then, when leverage reduces to 20%, average equity beta value of 15 listed firms goes up to 0,021 and average asset beta value of 15 firms increases more to 0,104.

The below chart 1 shows us: when leverage degree decreases down to 20%, average equity and asset beta values decrease slightly (0,857 and 0,485) compared to those at the initial rate of 25% (0,835 and 0,381). Then, when leverage degree increases up to 30%, average equity beta decreases little more and average asset beta value also decreases more (to 0,802 and 0,231). However, the fluctuation of equity beta value (0,546) in the case of 30% leverage up is higher than (>) the results in the rest 2 leverage cases.

Chart 1: Comparing statistical results of three (3) scenarios of changing FL (2007-2009)

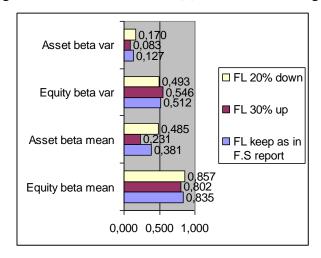


Chart 2: Comparing statistical results of three (3) scenarios of changing FL (2007-2011)

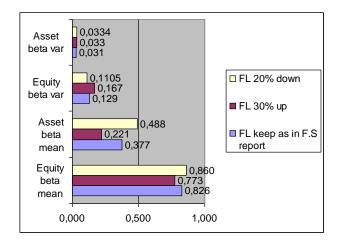
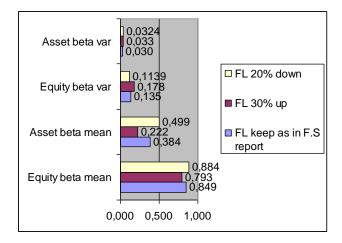


Chart 3: Comparing statistical results of three (3) scenarios of changing FL (2009-2011)



5. DISCUSSION

In short, the using of financial leverage could have both negatively or positively impacts on the financial results or return on equity of a company. The more debt the firm uses, the more risk it takes. And FL is a factor that causes financial crises in many economies and firms. Using leverage too much indicates the firm met financial distress.

On the other hand, in the case of increasing leverage, the company will expect to get more returns. The financial leverage becomes worthwhile if the cost of additional financial leverage is lower than the additional earnings before taxes and interests (EBIT). FL has become a positive factor linking finance and growth in many companies. Beside, leverage choice could also become a determinant of firms' capital structure and financial risk.

Looking at chart 2, it is noted that in case leverage up 30%, during 2007-2009 period, asset and equity beta mean (0,231 and 0,802) of non-banking investment and financial service industry are

higher than those in the period 2007-2011 (0,221 and 0,773). Looking at exhibit 7, we can see asset beta mean and equity beta mean are higher than those of consumer good industry (0,222 and 0,630). This relatively shows us that financial leverage does affect asset beta values.

6. CONCLUSION

In summary, the government has to consider the impacts on the mobility of capital in the markets when it changes the macro policies. Besides, it continues to increase the effectiveness of building the legal system and regulation supporting the plan of developing non-banking investment and financial service market. The Ministry of Finance continue to increase the effectiveness of fiscal policies and tax policies which are needed to combine with other macro policies at the same time. The State Bank of Viet Nam continues to increase the effectiveness of capital providing channels for non-banking investment and financial service companies as we could note that in this study when leverage is going to increase up to 30%, the risk level decreases much (as well as the asset beta var), compared to the case it is going to decrease down to 20%.

Furthermore, the entire efforts among many different government bodies need to be coordinated. Finally, this paper suggests implications for further research and policy suggestion for the Viet Nam government and relevant organizations, economists and investors from current market conditions.

7. ACKNOWLEDGEMENTS

Thanks very much for the helping of Professors and lecturers at GSIM, Intl U of Japan and Banking University HCMC Viet Nam.

8. APPENDICES (if applicable)

APPENDIX A: Interest rates in banking industry during crisis

(source: Viet Nam commercial banks)

| Year | Borrowing Interest rates | Deposit Rates | Note |
|------|-----------------------------|------------------|---|
| 2011 | 18%-22% | 13%-14% | |
| 2010 | 19%-20% | 13%-14% | Approximately |
| 2009 | 9%-12% | 9%-10% | (2007: required reserves ratio at SBV is changed from |
| 2008 | 19%-21% | 15%- | 5% to 10%) |
| | | 16,5% | (2009: special supporting interest rate is 4%) |
| 2007 | 12%-15% | 9%-11% | interest rate is 4%) |

APPENDIX B: Basic interest rate changes in Viet Nam

(source: State Bank of Viet Nam and Viet Nam economy)

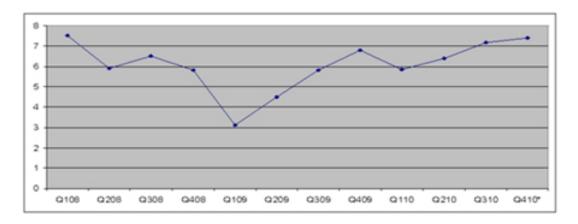
| Year | Basic rate | Note |
|------|------------|---------------------------|
| 2011 | 9% | |
| 2010 | 8% | |
| 2009 | 7% | |
| 2008 | 8,75%-14% | Approximately, fluctuated |
| 2007 | 8,25% | |
| 2006 | 8,25% | |
| 2005 | 7,8% | |
| 2004 | 7,5% | |
| 2003 | 7,5% | |
| 2002 | 7,44% | |
| 2001 | 7,2%-8,7% | Approximately, fluctuated |
| 2000 | 9% | |

APPENDIX C: Inflation, GDP growth and macroeconomics factors

(source: Viet Nam commercial banks and economic statistical bureau)

| Year | Inflation | GDP | USD/VND rate | | | |
|------|--------------------------------------|-----------------|--------------|--|--|--|
| 2011 | 18% | 5,89% | 20.670 | | | |
| 2010 | 11,75% (Estimated at Dec 2010) | 6,5% (expected) | 19.495 | | | |
| 2009 | 6,88% | 5,2% | 17.000 | | | |
| 2008 | 22% | 6,23% | 17.700 | | | |
| 2007 | 12,63% | 8,44% | 16.132 | | | |
| 2006 | 6,6% | 8,17% | | | | |
| 2005 | 8,4% | | | | | |
| Note | approximately | | | | | |

APPENDIX D: GDP growth Việt Nam 2006-2010 (source: Bureau Statistic)

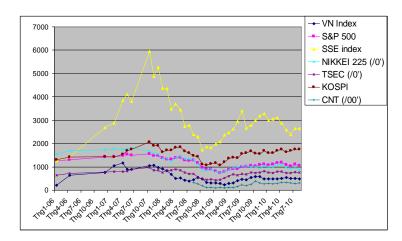


APPENDIX E: Increase/decrease risk level of listed gas and oil firms under changing scenarios of leverage: in 2011 F.S reports, 30% up, 20% down in the period 2007 - 2009

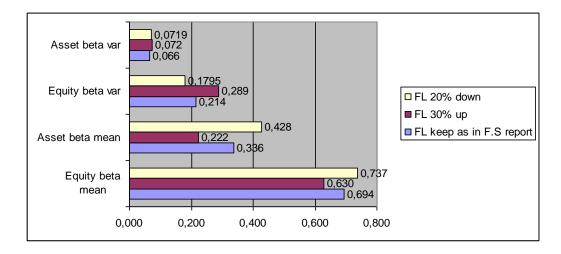
| | | FL keep as in F.S report | | FL 30 | % up | FL 20% | ⁄₀ down |
|--------------|--------------------------|-----------------------------|---------------|---|--|---|--|
| Order No. | Company stock code | Equity beta | Asset beta | Increase /Decrease (equity beta) | Increase /Decrease (asset beta) | Increase /Decrease (equity beta) | Increase /Decrease (asset beta) |
| 1 | ASP | 0,496 | 0,119 | 0,000 | -0,113 | 0,000 | 0,075 |
| 2 | CNG | 0,147 | 0,086 | -0,139 | -0,082 | 0,082 | 0,067 |
| 3 | GAS | -0,090 | -0,049 | 0,017 | 0,019 | -0,011 | -0,015 |
| 4 | HFC | 0,546 | 0,351 | -0,077 | -0,100 | 0,049 | 0,074 |
| 5 | HTC | 0,546 | 0,225 | -0,077 | -0,114 | 0,049 | 0,090 |
| 6 | MTG | 0,773 | 0,387 | 0,000 | -0,116 | 0,000 | 0,077 |
| 7 | PCG | 0,443 | 0,278 | -0,118 | -0,111 | 0,073 | 0,084 |
| 8 | PGC | 0,869 | 0,418 | 0,000 | -0,135 | 0,000 | 0,090 |
| 9 | PGD | 1,171 | 0,691 | 0,000 | -0,144 | 0,000 | 0,096 |
| 10 | PTH | 0,359 | 0,146 | -0,106 | -0,088 | 0,077 | 0,083 |
| 11 | SFC | 0,853 | 0,650 | 0,000 | -0,061 | 0,000 | 0,041 |
| 12 | TMC | 0,777 | 0,296 | 0,000 | -0,144 | 0,000 | 0,096 |
| 13 | VMG | 2,883 | 1,444 | 0,000 | -0,432 | 0,000 | 0,288 |

| | 14 | PGS | 1,013 | 0,207 | 0,000 | -0,242 | 0,000 | 0,161 |
|---|----|-----|-------|---------|--------|--------|-------|-------|
| | 15 | PVG | 1,743 | 0,465 | 0,000 | -0,383 | 0,000 | 0,256 |
| - | | | | Average | -0,033 | -0,150 | 0,021 | 0,104 |

APPENDIX F: VNI Index and other stock market index during crisis 2006-2010



APPENDIX G: Comparing statistical results of three (3) scenarios of changing FL of 121 listed firms in the consumer good industry.



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