BUSINESS ENTITY FINANCIAL VALUATION FOR MALAYSIA OIL & GAS INDUSTRY: A QUALITATIVE CASE STUDY APPROACH

By

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ABSTRACT

The Oil & Gas sector has played a crucial role in Malaysia’s economy in which 20% is contributed to the nation’s gross domestic product (GDP). Hence, when the global oil price crisis begun in mid 2014, Malaysia’s economy suffered a setback in terms of lower revenue being generated for the country and loss of investor confidence causing the FTSE Bursa Malaysia KLCI to fall as well. Therefore, with this in mind this paper examined a number of financial instruments with the aim of identifying the suitability of these instruments in evaluating business entity financial valuation of Oil & Gas companies before and after the oil price crisis. The literature review of this research presented five (5) financial instruments which are price to earnings (PE), enterprise multiplier (EM), discounted cash flow (DCF), net assets value (NAV) and net tangible assets (NTA) that can be used for business entity financial valuation of Malaysia Oil & Gas companies. Therefore, in order to confirm the literature findings, this study was conducted using a case study approach with the objective of contributing to the body of knowledge of the Oil & Gas industry both globally and locally. As a result of the findings, the study finds that the all five (5) financial instruments as mentioned above can be used before crisis periods but only four (4) financial instruments with the exclusion of the discounted cash flow (DCF) approach can be used after or during crisis periods. The exclusion of the discounted cash flow (DCF) valuation methodology is due to its inability to accurately produce consistent business entity financial valuations during times of crisis. In conclusion this research provides a conceptual framework which can be used as a guideline for business entity financial valuation of Malaysia Oil & Gas companies.

Keywords: Gross Domestic Product (GDP), Business Entity Financial Value, Price to Earnings (PE), Enterprise Multiplier (EM), Discounted Cash Flow (DCF), Net Assets Value (NAV), Net Tangible Assets (NTA)
ABSTRAK

Sektor Minyak & Gas memainkan peranan yang penting untuk ekonomi Malaysia di mana 20% dari sektor ini menyumbang kepada keluaran dalam negara kasar (GDP). Oleh itu, apabila krisis harga minyak global bermula pada pertengahan 2014, ekonomi Malaysia mengalami kemunduran dari segi hasil yang lebih rendah dijana untuk negara dan kehilangan keyakinan pelabur menyebabkan Bursa Saham Kuala Lumpur (KLCI) jatuh juga. Selaras dengan fakta ini, karya ini akan meneliti beberapa instrumen kewangan dengan tujuan untuk mengenal pasti kesesuaian instrumen ini untuk menilai penilaian kewangan entiti perniagaan syarikat-syarikat Minyak & Gas Malaysia sebelum dan selepas krisis harga minyak. Kajian literatur telah menyampaikan lima (5) instrumen kewangan iaitu harga kepada pendapatan (PE), perusahaan pengganda (EM), aliran tunai terdiskaun (DCF), nilai aset bersih (NAV) dan nilai aset ketara bersih (NTA) yang boleh digunakan bagi penilaian kewangan entiti perniagaan syarikat-syarikat Malaysia Minyak & Gas. Seterusnya untuk mengesahkan penemuan sastera, kajian ini dijalankan dengan menggunakan pendekatan kajian kes dengan objektif untuk menyumbang kepada badan pengetahuan industri Minyak & Gas di peringkat global dan tempatan. Hasil daripada kajian ini mendapati bahawa kesemua lima (5) instrumen kewangan seperti yang dinyatakan di atas boleh digunakan sebelum tempoh krisis tetapi hanya empat (4) instrumen kewangan dengan pengecualian pendekatan aliran tunai terdiskaun (DCF) boleh digunakan selepas atau semasa tempoh krisis. Pengecualian kaedah penilaian aliran tunai terdiskaun (DCF) adalah disebabkan oleh ketidakupayaan untuk menghasilkan penilaian kewangan yang konsisten untuk entiti perniagaan pada masa krisis. Kesimpulannya kajian ini membekalkan satu rangka konsep yang boleh digunakan sebagai garis panduan bagi penilaian kewangan entiti perniagaan syarikat-syarikat Minyak & Gas Malaysia.

Kata Kunci: Keluaran dalam Negara Kasar (GDP), Penilaian Kewangan Entiti Perniagaan, Harga kepada Pendapatan (PE), Perusahaan Pengganda (EM), Aliran Tunai Diskaun (DCF), Nilai Asset Bersih (NAV), Nilai Asset Ketara Bersih (NTA)
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TABLE OF CONTENTS

CERTIFICATION OF THESIS WORK  ii
PERMISSION TO USE  iv
ABSTRACT  v
ABSTRAK  vi
ACKNOWLEDGEMENT  vii
TABLE OF CONTENT  viii
LIST OF TABLE  xi
LIST OF FIGURE  xiii
LIST OF ABBREVIATIONS  xiv

CHAPTER 1: INTRODUCTION  1
1.1 Introduction  1
1.2 Background of the study  2
1.2 Research problem  6
1.3 Justification of this research  7
1.4 Research issues  8
1.5 Research objectives  9
1.6 Significance of research  10
1.7 Scope and Limitations of study  13
1.8 Organization of the thesis  15
1.9 Summary  17
CHAPTER 2: LITERATURE REVIEW

2.1 Introduction 19

2.2 The overview of the Oil & Gas industry in Malaysia 20

2.3 The timeline of the oil price crisis 24

2.3.1 The Shale Oil Revolution in United States of America 28

2.4 The Financial Instruments used for Business Entity Financial Valuation (All Industry) 29

2.5 The Financial Instruments used for Business Entity Valuation of Oil & Gas Companies (Western) 35

2.6 The Financial Instruments used for Business Entity Financial Valuation of Oil & Gas Companies (Malaysia) 42

2.7 Preliminary Conceptual Framework 47

2.8 Research Issues 48

2.9 Summary 49

CHAPTER 3: RESEARCH METHODOLOGY 50

3.1 Introduction 50

3.2 Justification of Qualitative Research 51

3.3 Case Study Methodology 53

3.4 Strength and Justification of using Case Study Method in this research 55

3.5 Research Design 56

3.5.1 Unit of Analysis for this Research 57

3.5.2 Selection of Companies for this Research 58

3.5.3 Reliability and Validity of data 60

3.5.4 Data Collection 62

3.5.5 Data Analysis 64
CHAPTER 4: RESULTS & FINDINGS

4.1 Introduction

4.2 Overview of Selected Business Entities

4.3 Research Issues

4.3.1 Analysis result for Research Issue 1

4.3.2 Analysis result for Research Issue 2

4.4 Summary

CHAPTER 5: CONCLUSION

5.1 Introduction

5.2 Conclusion of Research Issues

5.2.1 Research Issue 1

5.2.2 Research Issue 2

5.3 Conclusion of Research Problems

5.3.1 Preliminary Conceptual Framework comparison

5.3.2 Conceptual Framework

5.4 Implications of this Research

5.5 Limitations of this Research

5.6 Suggestion for Future Research

5.7 Conclusion

REFERENCES

ONLINE RESOURCES

APPENDIX
LIST OF TABLES

Table 1.1  Summary of Scope of this Research 13
Table 2.1  Oil and Gas History in Malaysia 21
Table 2.2  Literature Synthesis for Timeline of the Oil price crisis 26
Table 2.3  The main elements of business entity financial valuation for all industries 31
Table 2.4  The Financial Instruments used for business entity financial Valuation in the Western Oil & Gas Industry 36
Table 2.5  The Financial Instruments used for business entity financial Valuation in the Malaysia Oil & Gas Industry 43
Table 3.1  Case Study Methodology in Business Research 53
Table 3.2  Top five (5) Malaysia Oil and Gas business entities based on market capitalization 59
Table 3.3  Reliability and Validity approach for this Research 61
Table 3.4  Data Collection Summary Table 63
Table 3.5  Summary of Formula for Data Analysis 65
Table 4.1  Overview of Bumi Armada Berhad 69
Table 4.2  Overview of Bumi Armada Operations 69
Table 4.3  Snapshot of Bumi Armada’s Financial Position 70
Table 4.4  Overview of SapuraKencana Berhad 71
Table 4.5  Overview of SapuraKencana Operations 72
Table 4.6  Snapshot of SapuraKencana’s Financial Position 73
Table 4.7  Results for Case 1 75
Table 4.8  Realigned Results for Case 1 in RM billion 76
Table 4.9  Results for Case 2 77
Table 4.10  Realigned Results for Case 2 in RM billion 77
Table 4.11  Results for Case 3 79
Table 4.12  Realigned Results for Case 3 in RM billion 80
Table 4.13  Results for Case 4 82
Table 4.14  Realigned Results for Case 4 in RM billion 83
Table 4.15  Summary of findings of Research Issues 86
Table 5.1  Research Issue 1 Conclusion 91
Table 5.2  Research Issue 2 Conclusion 92
<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>The Organization and flow of Chapter 1</td>
<td>1</td>
</tr>
<tr>
<td>1.2</td>
<td>Southeast Asia Oil Production</td>
<td>3</td>
</tr>
<tr>
<td>1.3</td>
<td>Global Oil &amp; Gas Investment (2005 – 2015)</td>
<td>4</td>
</tr>
<tr>
<td>1.4</td>
<td>Summary of Significance of Research</td>
<td>10</td>
</tr>
<tr>
<td>1.5</td>
<td>Organization Structure of this Research</td>
<td>15</td>
</tr>
<tr>
<td>2.1</td>
<td>The Organization and flow of Chapter 2</td>
<td>19</td>
</tr>
<tr>
<td>2.2</td>
<td>The Biggest Oil &amp; Gas Companies Operating in Malaysia</td>
<td>22</td>
</tr>
<tr>
<td>2.3</td>
<td>Top Oil Producers 2015</td>
<td>25</td>
</tr>
<tr>
<td>2.4</td>
<td>Oil’s Big Dive</td>
<td>27</td>
</tr>
<tr>
<td>2.5</td>
<td>Preliminary Conceptual Framework</td>
<td>47</td>
</tr>
<tr>
<td>3.1</td>
<td>The Organization and Flow of Chapter 3</td>
<td>50</td>
</tr>
<tr>
<td>4.1</td>
<td>The Organization and Flow of Chapter 4</td>
<td>67</td>
</tr>
<tr>
<td>4.2</td>
<td>Bumi Armada Earnings (2012 – 2015)</td>
<td>81</td>
</tr>
<tr>
<td>4.3</td>
<td>SapuraKencana Earnings (2012 – 2015)</td>
<td>84</td>
</tr>
<tr>
<td>5.1</td>
<td>The Organization and Flow of Chapter 5</td>
<td>87</td>
</tr>
<tr>
<td>5.2</td>
<td>Final Conceptual Framework</td>
<td>96</td>
</tr>
</tbody>
</table>
LIST OF ABBREVIATIONS

CAPM  Capital Assets Pricing Model
DCF  Discounted Cash Flow
EBITDA  Earnings before income, tax and depreciation
EBIDAX  Earnings before income, tax, depreciation and exploration expense
EM  Enterprise Multiplier
EPS  Earnings Per Share
EV  Enterprise Value
FCF  Free Cash Flow
GDP  Gross Domestic Product
KLCI  Kuala Lumpur Composite Index
LNG  Liquefied Nitrogen Gas
MIDA  Malaysia Investment Development Authority
MNC  Multi National Company
NAV  Net Assets Value
NTA  Net Tangible Assets
PE  Price to Earnings
PSC  Production Sharing Contract
Chapter One: Introduction

1.0 Introduction

This chapter mainly serves as the overview and the background of what this research topic is going to discuss and what are the main problems to be addressed by this research. The organization of this chapter is shown in Figure 1.1.

Figure 1.1
The organization and flow of Chapter 1
Source: developed for this research
The contents of the thesis is for internal user only
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105


ONLINE RESOURCES

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<table>
<thead>
<tr>
<th>Criteria</th>
<th>Qualitative Research</th>
<th>Quantitative Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpose</td>
<td>To understand &amp; interpret social interactions.</td>
<td>To test hypotheses, look at cause &amp; effect, &amp; make predictions.</td>
</tr>
<tr>
<td>Groups Studied</td>
<td>Smaller &amp; not randomly selected.</td>
<td>Larger &amp; randomly selected.</td>
</tr>
<tr>
<td>Variables</td>
<td>Study of the whole, not variables.</td>
<td>Specific variables studied</td>
</tr>
<tr>
<td>Type of Data Collected</td>
<td>Words, images, or objects.</td>
<td>Numbers and statistics.</td>
</tr>
<tr>
<td>Form of Data Collected</td>
<td>Qualitative data such as open-ended responses, interviews, participant observations, field notes, &amp; reflections.</td>
<td>Quantitative data based on precise measurements using structured &amp; validated data-collection instruments.</td>
</tr>
<tr>
<td>Type of Data Analysis</td>
<td>Identify patterns, features, themes.</td>
<td>Identify statistical relationships.</td>
</tr>
<tr>
<td>Objectivity &amp; Subjectivity</td>
<td>Subjectivity is expected.</td>
<td>Objectivity is critical.</td>
</tr>
<tr>
<td>Role of Researcher</td>
<td>Researcher &amp; their biases may be known to participants in the study, &amp; participant characteristics may be known to the researcher.</td>
<td>Researcher &amp; their biases are not known to participants in the study, &amp; participant characteristics are deliberately hidden.</td>
</tr>
<tr>
<td>Results</td>
<td>Particular or specialized findings that is less generalizable.</td>
<td>Generalizable findings that can be applied to other populations.</td>
</tr>
<tr>
<td>Scientific Method</td>
<td>Exploratory or bottom–up: the researcher generates a new hypothesis and theory from the data collected.</td>
<td>Confirmatory or top-down: the researcher tests the hypothesis and theory with the data.</td>
</tr>
<tr>
<td>View of Human Behaviour</td>
<td>Dynamic, situational, social, &amp; personal.</td>
<td>Regular &amp; predictable.</td>
</tr>
<tr>
<td>Focus</td>
<td>Wide-angle lens; examines the breadth &amp; depth of phenomena.</td>
<td>Narrow-angle lens; tests specific hypotheses.</td>
</tr>
<tr>
<td>Nature of Observation</td>
<td>Study behaviour in a natural environment.</td>
<td>Study behaviour under controlled conditions; isolate causal effects.</td>
</tr>
<tr>
<td>Nature of Reality</td>
<td>Multiple realities; subjective.</td>
<td>Single reality; objective.</td>
</tr>
</tbody>
</table>