

## LIST OF CONTENT

|                                                     |     |
|-----------------------------------------------------|-----|
| ABSTRAK.....                                        | i   |
| ABSTRACT .....                                      | ii  |
| PREFACE.....                                        | iii |
| LIST OF CONTENT .....                               | iv  |
| LIST OF FIGURE .....                                | vi  |
| LIST OF TABLE .....                                 | vii |
| CHAPTER I INTRODUCTION.....                         | 1   |
| I.1    Background .....                             | 1   |
| I.2    Problem Formulation.....                     | 4   |
| I.3    Objectives.....                              | 4   |
| I.4    Research Benefit .....                       | 4   |
| I.5    Problem Limitation .....                     | 5   |
| I.6    Writing System.....                          | 5   |
| CHAPTER II LITERATURE REVIEW .....                  | 7   |
| II.1 Study of Literature .....                      | 7   |
| II.1.1 Comparisons with Previous Studies .....      | 7   |
| II.2 Condensate .....                               | 8   |
| II.3 Gas Lift .....                                 | 10  |
| II.4 Lifting Cost .....                             | 11  |
| II.5 Investment.....                                | 11  |
| II.6 Net Present Value (NPV).....                   | 12  |
| II.7 Internal Rate of Return (IRR) .....            | 13  |
| II.8 Payback Period (PBP).....                      | 14  |
| II.9 Benefit to Cost Ratio (BCR).....               | 15  |
| II.12 Minimum Attractive Rate of Return (MARR)..... | 18  |
| II.13 Sensitivity Analysis .....                    | 19  |
| CHAPTER III RESEARCH METHODOLOGY .....              | 20  |
| III.1 Conceptual Model.....                         | 20  |
| III.2 Research Stages .....                         | 21  |

|                                                                     |    |
|---------------------------------------------------------------------|----|
| III.2.1 Early Identification Stages .....                           | 23 |
| III.2.2 Data Collecting Stage .....                                 | 24 |
| III.2.3 Data Processing Stage .....                                 | 25 |
| III.2.4 Analysis Stage .....                                        | 27 |
| III.2.5 Conclusion and Suggestion Stage .....                       | 27 |
| CHAPTER IV DATA COLLECTING AND PROCESSING.....                      | 28 |
| IV.1 Data Collecting Stage .....                                    | 28 |
| IV.1.1 Project Profile.....                                         | 28 |
| IV.1.2 Buyers Profile.....                                          | 35 |
| IV.1.3 Pre-Consideration of Lifting Alternatives.....               | 36 |
| IV.1.4 First Alternative Profile (Building new ORF).....            | 38 |
| IV.1.5 Second Alternative Profile (Shipping and Docking).....       | 40 |
| IV.1.6 Third Alternative Profile (Joint Lifting) .....              | 42 |
| IV.2 Data Processing Stage .....                                    | 43 |
| IV.2.1 PSC (Production Sharing Contract) Cashflow .....             | 44 |
| IV.2.2 First Alternative (Building New ORF) PSC Cashflow .....      | 48 |
| IV.2.3 Second Alternative (Shipping and Docking) PSC Cashflow ..... | 49 |
| IV.2.4 Third Alternative (Joint Lifting) PSC Cashflow .....         | 51 |
| CHAPTER V ANALYSIS .....                                            | 53 |
| V.1 Technical Analysis.....                                         | 53 |
| V.2 Incremental Benefit to Cost Ratio Analysis .....                | 54 |
| V.2 Sensitivity Analysis .....                                      | 55 |
| CHAPTER VI CONCLUSION and SUGGESTION .....                          | 60 |
| VI.1 Conclusion.....                                                | 60 |
| VI.2 Suggestion .....                                               | 60 |
| VI.2.1 Suggestion To The Company.....                               | 60 |
| VI.2.2 Suggestion To The Next Researcher .....                      | 60 |
| BIBLIOGRAPHY.....                                                   | 61 |
| APPENDIX.....                                                       | 63 |