

CONTENTS

COVER PAGE.....	i
APPROVAL SHEET	ii
DECLARATION	ii
ACKNOWLEDGEMENT	iv
ABSTRACT.....	v
SARI.....	vi
TABLE OF CONTENTS.....	vii
LIST OF FIGURES	x
LIST OF TABLES	xv
CHAPTER I: INTRODUCTION	1
1.1. BACKGROUND OF RESEARCH.....	1
1.2. PROBLEM FORMULATION	2
1.3. OBJECTIVE OF RESEARCH.....	3
1.4. LIMITATION OF RESEARCH	3
1.5. DERIVABLE OF RESEARCH	4
1.6. SCOPE OF RESEARCH.....	4
1.6.1. Research area	4
1.6.2. Scope of work	4
1.7. ADVANTAGES OF RESEARCH.....	6
1.8. PREVIOUS RESEARCHES AND ORIGINALITY OF RESEARCH.....	6
CHAPTER II: LITERATURE REVIEW	8
2.1 REGIONAL GEOLOGY OF STUDY AREA	8
2.1.1 Geological framework overview of Cuu Long Basin	8
2.1.2 Tectonic and geological setting of Cuu Long Basin	9
2.1.3 The structural geology of Cuu Long Basin	10
2.1.4 Stratigraphy and lithology of Cuu Long Basin	14

2.1.5	The stratigraphy of Vam Co oilfield	16
2.1.6	Petroleum system of Vam Co oilfield.....	22
2.2	BACKGROUND THEORY	25
2.2.1	Sedimentary facies and depositional environments	25
2.2.2	Facies interpretation from well logs.....	38
2.2.3	Determination fluid and gas from well logs.....	39
2.2.4	Basic concepts of petro-physic properties.....	40
2.2.5	Calculation of reservoir parameters from well log	48
CHAPTER III: HYPOTHESIS AND RESEARCH METHOD		55
3.1	HYPOTHESIS.....	55
3.2	RESEARCH METHOD	55
3.2.1	Data	55
3.2.2	Tools.....	56
3.2.3	Research stages	56
CHAPTER IV: FACIES INTERPRETATION, DEPOSITIONAL ENVIRONMENTS AND DISTRIBUTION OF RESERVOIR C30.....		66
4.1	FACIES INTERPRETATION	66
4.2	DEPOSITIONAL ENVIRONMENTS.....	67
4.3	DISTRIBUTION OF RESERVOIR C30	79
4.3.1	Log correlation	79
4.3.2	The distribution of reservoir C30.....	90
CHAPTER V: THE PETROPHYSIC PROPERTIES AND THEIR DISTRIBUTIONS OF RESERVOIR C30		97
5.1	THE PETROPHYSIC PROPERTIES OF RESERVOIR C30.....	97
5.1.1	Porosity.....	100
5.1.2	Water saturation.....	103

5.1.3	Permeability.....	106
5.2	THE DISTRIBUTION OF PETROPHYSIC PROPERTIES OF RESERVOIR C30	111
5.2.1	Porosity	111
5.2.2.	Permeability	112
5.2.3.	Water saturation	112
CHAPTER VI:	CONCLUSION AND SUGGESTION.....	114
6.1	CONCLUSION.....	114
6.2	SUGGESTION	115
REFERENCES.....		116
APPENDIX 1:	LOG POROSITY OF C30 RESERVOIR	122
APPENDIX 2:	WATER SATURATION OF C30 RESERVOIR	123
APPENDIX 3:	PERMEABILITY OF C30 RESERVOIR	126
APPENDIX 4:	LOG POROSITY, WATER SATURATION, PERMEABILITY OF C30 RESERVOIR.....	129