TABLE OF CONTENTS

	Page
Acknowledgement	iii
Abstract in English	iv
Abstract in Thai	v
List of Contents	vi
List of Figures	viii
List of Table	x
Chapter 1 Introduction	1
1.1 Study Aims	1
1.2 Study area	1 2 2
1.3 Data Set	1707
1.4 Literature Review	4
1.4.1 Structural Framework	4
1.4.2 Development of Basin	7
1.4.3 Stratigraphy in the Pattani Basin	8
1.4.4 Hydrocarbon Occurrences	9
100	
Chapter 2 Basic Theory and Methodology	10
2.1 The characteristic of Reflections	10
2.2 Interpretation	11
Chapter 3 Seismic Interpretation	12
3.1 Interpretation of Seismic Profiles	n 12/orsity
3.1.1 In-line 96	13
3.1.2 In-line 107	115 V e 0
3.1.3 In-line 116	15
3.1.4 In-line 122	18
3.1.5 In-line 128	18
3.1.6 In-line 138	21

3.1.7 Seismic Interpretation of Cross-lines	21
3.2 TWT Structure maps	21
3.2.1 Structural map of Horizon A	28
3.2.2 Structural map of Horizon B	28
3.2.3 Structural map of Horizon C	31
3.2.4 Structural map of Horizon D	31
3.2.5 Structural map of Horizon E	31
. 3.2.6 Structural map of Horizon F	35 -
3.3 Isochron maps	35
3.3.1 Isochron map of Unit 1 with fault trace overlay from horizon A	35
3.3.2 Isochron map of Unit 2 with fault trace overlay from horizon B	43
3.3.3 Isochron map of Unit 3 with fault trace overlay from horizon C	43
3.3.4 Isochron map of Unit 4 with fault trace overlay from horizon D	46
3.3.5 Isochron map of Unit 5 with fault trace overlay from horizon E	46
Chapter 4 Discussion	50
4.1 Stratigraphy	50
4.2 Structural Development	52
4.3 Petroleum Potential	54
4.4 Time-Depth Conversion	55
ONIVE.	
Chapter 5 Conclusions	57
	2 .
References SUMPONSIASIBS	58
Curriculum Vitae by Chiang Mai Univer	
II rights reserv	

TABLE OF FIGURES

Figure	Page
1.1 The study area in the Pattani Basin.	2
1.2 Base map of the study area	3
1.3 Stratigraphic Summary in the Pattani Basin	5
1.4 Major tectonic features of Southeast Asia	6
3.1 Seismic interpretation of In-Line 96	14
3.2 Seismic interpretation of In-Line 107	16
3.3 Seismic interpretation of In-Line 116	17
3.4 Seismic interpretation of In-Line 122	19
3.5 Seismic interpretation of In-Line 128	20
3.6 Seismic interpretation of In-Line 138	22
3.7 Seismic interpretation of cross-Line 400	23
3.8 Seismic interpretation of cross-Line 440	24
3.9 Seismic interpretation of cross-Line 490	25
3.10 Seismic interpretation of cross-Line 520	26
3.11 Seismic time-depth conversion in the study area	27.
3.12 TWT structure map of horizon A	29
3.13 TWT structure map of horizon B	30
3.14 TWT structure map of horizon C	32
3.15 TWT structure map of horizon D	33
3.16 TWT structure map of horizon E	34
3.17 TWT structure map of horizon F	36
3.18 Isochron map of the interval between horizons A and B (Unit 1)). 37
. 3.19 Isochron map of the interval between horizons B and C (Unit 2)	38
. 3.20 Isochron map of the interval between horizons C and D (Unit 3)). 39
3.21 Isochron map of the interval between horizons D and E (Unit 4)). 40
3.22 Isochron map of the interval between horizons E and F (Unit 5)	. 41

3.23 Isochron map of Unit 1 with fault trace overlay from horizon A	42
3.24 Isochron map of Unit 2 with fault trace overlay from horizon B	44
3.25 Isochron map of Unit 3 with fault trace overlay from horizon C	45
3.26 Isochron map of Unit 4 with fault trace overlay from horizon D	47
3.27 Isochron map of Unit 5 with fault trace overlay from horizon E	48
4.1 Stratigraphic summary in the Pattani Basin is compared six horizons	51
4.2 Change in thickness of units from footwalls to hangingwalls of faults	
Unit of thickness is millisecond	53
4.3 Change in thickness of units from footwalls to hangingwalls of faults	
Unit of thickness is meters	53
0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
AI IINIVERSI	
I UNIVE	

ลิชสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved

TABLE OF TABLE

Table	Page
3.1 Table shows interval and average velocities of unit 1-5 at the	
location of EH-1 well	13
3.2 The change in stratigraphic thickness from hangingwall to footwall of fault	ts
in each isochron map (unit is millisecond)	49
3.3 The change in stratigraphic thickness from hangingwall to footwall of fault	ts
in each isochron map (unit is meters)	49
4.1 Table shows interval and average velocities of unit 1-5 at the	
location of Erawan 1214 well	56
	// ·
· ALIMIVE	
OIVI.	

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved