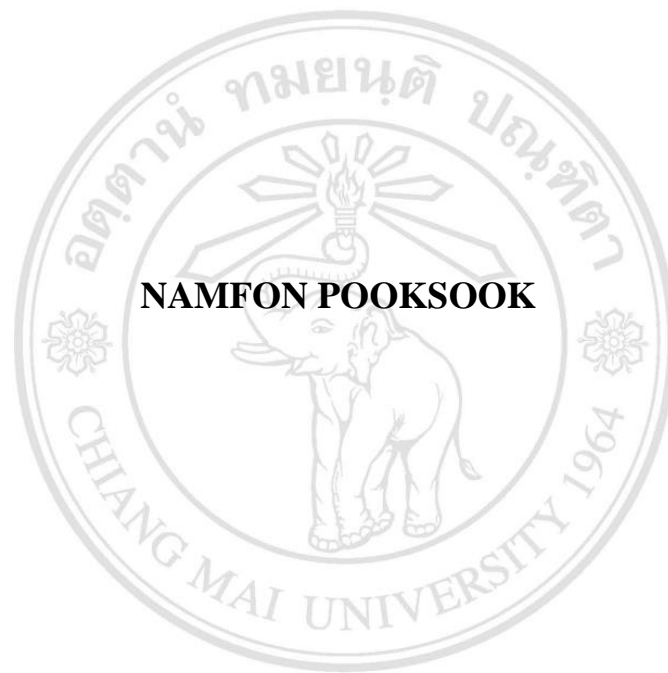


**RESERVOIR CHARACTERIZATION USING  
PRE-STACK SIMULTANEOUS INVERSION  
OF 3D SEISMIC DATA FROM  
TIMOR SEA, AUSTRALIA**



**NAMFON POOKSOOK**

**MASTER OF SCIENCE  
IN PETROLEUM GEOPHYSICS**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright © by Chiang Mai University  
All rights reserved

**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
JANUARY 2016**

**RESERVOIR CHARACTERIZATION USING PRE-STACK  
SIMULTANEOUS INVERSION OF 3D SEISMIC DATA  
FROM TIMOR SEA, AUSTRALIA**

**NAMFON POOKSOOK**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN PETROLEUM GEOPHYSICS**

**GRADUATE SCHOOL, CHIANG MAI UNIVERSITY  
JANUARY 2016**

**RESERVOIR CHARACTERIZATION USING PRE-STACK  
SIMULTANEOUS INVERSION OF 3D SEISMIC DATA FROM  
TIMOR SEA, AUSTRALIA**

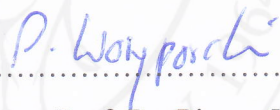
NAMFON POOKSOOK

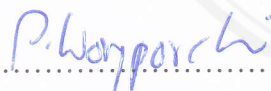
THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN PETROLEUM GEOPHYSICS

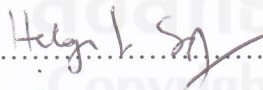
**Examination Committee:**


**Advisor:**

  
.....Chairman  
(Professor Helmut Jakubowicz)

  
.....  
(Assoc. Prof. Dr. Pisanu Wongpornchai)

  
.....Member  
(Assoc. Prof. Dr. Pisanu Wongpornchai)

  
.....Member  
(Helge Ivar Sognnes)

  
.....Member  
(Dr. Diako Hariri Naghadeh)

29 January 2016

Copyright © by Chiang Mai University

## ACKNOWLEDGEMENT

First I would like to thank my parents and my husband. Without their love and support over the years none of this would have been possible. They have always been there for me and I am thankful for everything they have supported me achieve.

I would like to thanks to PTTEP Australasia for providing data for this thesis and great thanks to PTT Exploration and Production Company Limited for supporting me financially during my time at Chiang Mai University. The study also benefited from discussions and advice from GGS (PTTEP geophysics division), especially Mr. Helge Ivar Sognnes for his support and special technical advices throughout my study.

I wish to express my sincere gratitude to my advisor Assoc. Prof. Dr. Pisanu Wongpornchai who supported and encouraged me from the beginning until the end of my thesis.

I would also give a special thanks to CGG-Jason and Ikon Science for providing software and support.

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Namfon Pooksook  
Copyright© by Chiang Mai University  
All rights reserved