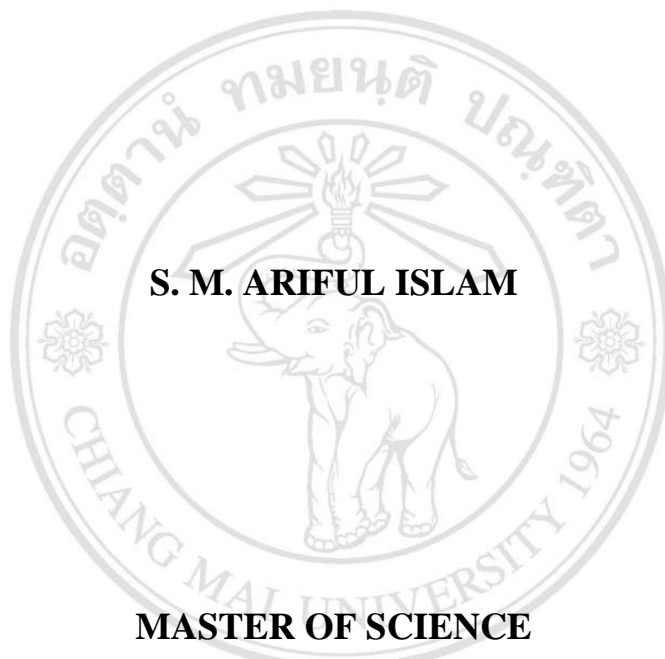


**IMPROVEMENT OF QUALITATIVE INTERPRETATION  
USING POST-STACK MODEL-BASED DETERMINISTIC  
INVERSION OF 3D KAREWA DATASET, TARANAKI  
BASIN, OFFSHORE NEW ZEALAND**



**MASTER OF SCIENCE  
IN PETROLEUM GEOPHYSICS**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
DECEMBER 2016**

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The seal of Chiang Mai University is a circular emblem. It features a central figure of an elephant standing and facing left. Above the elephant's head is a stylized sunburst or flame-like symbol. The entire emblem is enclosed within a circular border. The Thai text "มหาวิทยาลัยเชียงใหม่" (Mahavithayalai Chiang Mai) is written along the top arc of the border, and "CHANG MAI UNIVERSITY 1964" is written along the bottom arc. There are decorative floral motifs on the left and right sides of the border.

**S. M. ARIFUL ISLAM**

**AN INDEPENDENT STUDY SUBMITTED TO CHIANG MAI UNIVERSITY IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF MASTER OF SCIENCE  
IN PETROLEUM GEOPHYSICS**

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

**Examination Committee:**

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

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(Dr. Diako Hariri Naghadeh)

..... Member  
(Dr. Siriporn Chaisri)

**Advisory Committee:**

..... Advisor  
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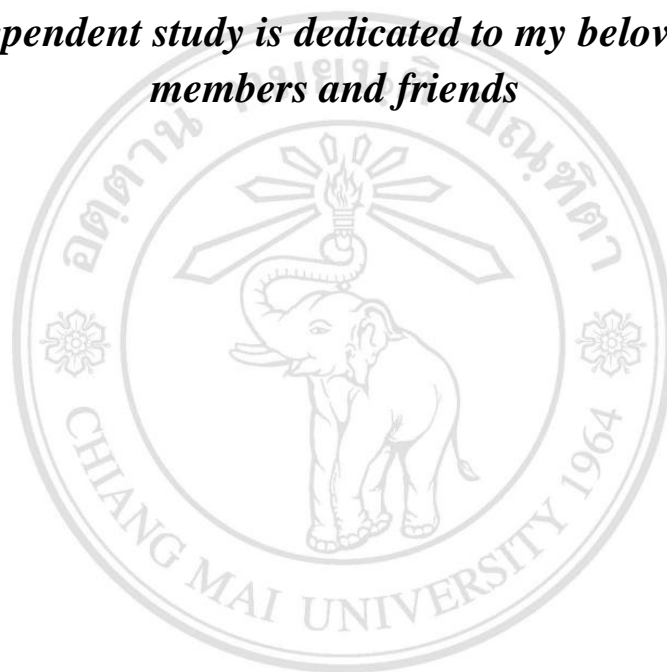
..... Co-advisor  
(Dr. Diako Hariri Naghadeh)

..... Co-advisor  
(Dr. Stefan Back)

13 December 2016

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***This independent study is dedicated to my beloved family  
members and friends***



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S. M. Ariful Islam