



This is to certify that the
thesis entitled
Dolomitization in the
North Adams Oil Field,
Arenac County
presented by

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has been accepted towards fulfillment
of the requirements for

M.S. degree in Geology


Major professor

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ABSTRACT

Dolomitization in the North Adams Oil Field appears to be mainly epigenetic and is the result of fluids moving up through fractures into the Dundee. This is shown by the generally high degree of dolomitization between 80 and 160 feet below the top of the formation. This coincides with natural rock porosity as shown by well logs. Dolomite also seems to be concentrated along the length of the main field which is interpreted to be a fault, and also along the smaller field interpreted to be an anticline. Finally, there appears to be a small amount of dolomite associated with the overlying Bell Shale which may have been a source of both Mg^{2+} and Fe^{2+} . This dolomite occurs just below the top of the Dundee formation.

