

2. INTRODUCTION

Mt. Winter-1 was the first well drilled by Pancontinental Petroleum Limited in OP 178 of the Amadeus Basin, under a farm-out agreement with the Permit Holder - Magellan Petroleum (N.T.) Pty. Limited.

The Mt. Winter Prospect was located 65 kms west of the Mereenie Oil and Gas Field, in OP 178 of the Amadeus Basin, Northern Territory, Australia (Figure 1). The nearest well control was Northwest Mereenie-1, 50 kms to the northeast, and Ochre Hill-1, 63 kms to the southeast. Outcrops to the north, west and south of the prospect area provided seismic control, because there was no effective seismic ties to Northwest Mereenie-1, the only well in the area covered by seismic control.

Mt. Winter-1 was drilled to assess the hydrocarbon potential of the Cambrian section, and to investigate the stratigraphic succession below the basal Cambrian unconformity. Particular emphasis was placed on the stratigraphy, reservoir and source rock potential, and maturation history of these sub-Cambrian sediments.