

Elnora D2B Pool– A New Central Alberta Nisku Reef Conventional Light Oil Discovery

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Summary and Introduction

In December 2011 a new deeper pool wildcat discovery well was drilled initiating the development of approximately 30 MM barrels of Original Oil in Place of 35 API, sweet oil from the Upper Devonian Nisku formation. The reservoir is reefal and has been dolomitized with excellent reservoir characteristics. The trap is purely stratigraphic as there is no underlying Leduc reef. The primary recovery mechanism is provided by a partial down dip water drive.

Theory and/or Method

Exploration for these small in area but prolific isolate reef targets was guided by modern 3D seismic data. The Nisku geological model underpinning the work and some illustrations of the seismic signature are included in the presentation. Discovery and development drilling chronology and an interpretation of the geometry of the reef complex is also summarized.

Conclusions

The pool has been developed by 17 vertical wells to date and a secondary water flood application for the Elnora D2B pool was submitted to AER during December 2014 and is currently pending regulatory approvals.

Acknowledgements

The 3D seismic data, which covers the Elnora D2B pool and led to the new pool oil discovery, was shot as a proprietary seismic survey in December 2010 and has been provided by the seismic data owners being Winta Resources Ltd. and Greystone Resources Ltd.

Bashaw Oil Ltd. as a corporate sale transaction along with the Elnora D2B related P&NG assets of Winta Resources Ltd, Greystone Resources Ltd. and Pika Resources Ltd were sold to Whitecap Resources Ltd. in 2014. Whitecap Resources Ltd. currently owns and operates a 100% working interest of the D2B pool.