

the uncertainty of present estimates of permeability.

3.8 Conclusion

The data suggest that reservoir sands with good porosities and permeabilities exist at the level of the interpreted mature section. However productivity may be reduced by migrating fines, clay plugging or formation damage caused by drilling.

No detailed correlation of lithology, porosity, permeability and diagenesis has been undertaken, however, such a study could improve play concepts and drilling practice.

4.0 BASS BASIN STRUCTURE

4.1 Structural Maps

The high quality widely spaced regional seismic lines recorded for the BMR in 1982 plus the data recorded for the partners in T-14-P and T-18-P during 1981 and 1982 forms the basis of the preliminary regional interpretation (Appendix 4.1). Approximately 3100 km of seismic data has been interpreted. Another 9000 kms of older less reliable seismic data available was not examined due to time constraints.

The seismic data was tied to a geological interpretation of the 19 wells in the Basin. A synthetic seismograph was produced for wells in which a sonic log was available to SAOGC.

Three seismic horizons were mapped at a scale of 1:250,000. These were 1) the top of the Eastern View Coal Measures,