

Compilation of Petroleum PVT Reports now available

25 November 2009 - A 2078-page pdf compilation of PVT reports for openfile oil and gas samples in Taranaki and other New Zealand basins has recently been completed by Richard Sykes of GNS Science. Petroleum Report PR4043 can now be downloaded from Crown Minerals' online technical database.



Photo: Margaret Low, GNS Science

PVT (Pressure-Volume-Temperature) reports or "Reservoir Fluid Studies" are generally obtained for new oil and gas discoveries in order to characterise reservoir fluid compositions and properties. The data obtained are commonly used to model fluid ratios and yields over an assumed production lifetime.

PVT data are also being increasingly used in exploration for pre-drill prediction of petroleum phase and properties such as API gravity, saturation pressure and formation volume factor. For example, whether a prospect is likely to contain single-phase undersaturated oil or two-phase oil and gas will significantly impact the economics of a discovery and therefore the ranking of the prospect.

Currently, about 65 openfile PVT reports from 56 wells have been lodged with Crown Minerals. These include reports for most of the Taranaki discoveries, as well as Galleon-1 in Canterbury Basin and Kawau-1A in Great South Basin. Some reports contain just compositional information, but most also contain PVT experimental data such as Constant Mass Expansion, Constant Volume Depletion, Differential Liberation, Separator Test, Swelling Test and Viscosity data.

Up until now, individual PVT reports have been largely hidden to on-line searches as they have generally lodged as appendices within well completion reports. The new compilation overcomes this problem and can be found by searching for PR4043 or "PVT". Within PR4043, individual PVT reports are listed by basin and well and are bookmarked for quick access.

If you are aware of other openfile PVT reports not included in the compilation report, please contact [Crown Minerals](#) so that they can be included in periodic updates.

Sources: GNS Science and Crown Minerals

Related Links

[GNS Science - Online Technical Database](#)