

CURRICULUM VITAE

PETER GUNN

NATIONALITY: Australian

LANGUAGES: English, French plus basic Spanish.

EDUCATION:

Universities of Melbourne (Australia), Manitoba (Canada) and Durham (England). BSc, MSc and PhD degrees. Cumulative studies give full majors in geophysics, geology, physics and mathematics.

FIELDS OF EXPERTISE:

Planning, supervision and direct involvement with the acquisition, processing, enhancement and interpretation of airborne magnetic and gravity surveys plus seismic interpretation. Personally own and operate industry standard software systems, capable of quality control, GIS creation, gridding, enhancing, contouring, imaging, data merging, automatic profile and grid based depth estimation routines, modelling, map production etc. Can import SEGY seismic sections as interpretation backgrounds. **Used to working remotely from colleagues and clients via broadband internet.**

INTERNATIONAL EXPERIENCE:

Have worked in 23 countries and interpreted data from another 11 countries.

EMPLOYMENT HISTORY:

August 2000 - Present: Consulting Geophysicist Magnetic/gravity projects to date in Canada, South Africa, Angola, PNG, Brazil, Uruguay, Zimbabwe, Botswana, Namibia, France, French Polynesia and Australia. This activity included hydrocarbon directed, acquisition projects and modelling based interpretations of the East Abrolhos, Cabinda (Angola), Papuan (PNG), Otway, Merlinleigh, Cooper, Surat, Gunnedah, Darling, Offshore Dongara, Bowen, Eromanga, Oaklands, Cobar and Bamaga sedimentary basins. *Experience with several airborne gravity surveys.*

1994 - 2000 Head, Geophysical Mapping Group/Airborne Geophysical Program Australian Geological Survey Organisation (AGSO). Supervising up to 28 staff acquiring, with own survey aircraft, and by contract, up to 500 000 line km of airborne magnetic data each year plus various national gravity surveys. Data were processed, enhanced and interpreted. This period included personal consulting/project work for: BHP Petroleum, Mobil, Cultus Petroleum, Oil Company of Australia, Asian Development Bank, Sultanate of Oman, Norsk Hydro, Australian Agency of International Development, Fiji Department of Mineral Resources, Argentine Government, Metal Mining Agency of Japan, Rio Tinto, Kennecott, Anglo American and others. Project Leader for aeromagnetic surveys for all of Fiji and Vanuatu. Gave 14 training courses worldwide.

1975-93 With multinational **Elf Aquitaine Group** (now Total Fina Elf) **Chief Geophysicist** for petroleum and mineral exploration subsidiaries. Petroleum exploration experience included studies in virtually all significant onshore and offshore Australian sedimentary basins, the North Sea, the Irish Sea, the UK and African Atlantic margins and the Mediterranean.. Based in London for three years. Participated in 18 hydrocarbon discoveries. Extensive background knowledge of seismic interpretation, sedimentary basin formation, structuring processes, depositional systems, hydrocarbon play concepts and applications of potential fields in basin studies. *Several years work on Bonaparte Gulf. Responsible for Barnett 2 oil discovery.*

Responsible for Elf Aquitaines's worldwide acquisition, processing, interpretation and research for magnetics and gravity based hydrocarbon and mineral exploration, based at company headquarters in France during a three year period.

Invitations to present keynote addresses, talks and workshops on the use of gravity and

Curriculum Vitae: Peter Gunn

Specialist consultant for magnetic and gravity surveys related to hydrocarbon exploration

One of the few such consultants who has actually worked in the seismic side of oil exploration

magnetics have been received from:

Society of Exploration Geophysicists (SEG), USA; Royal Astronomical Society, Meeting on "Application of potential fields methods to studies of passive margins", London, U.K.; International Geological Congress, Rio de Janeiro (session on Geology and Geophysics of Continental Margins), Brazil; American Geophysical Union; Australian Society of Exploration Geophysicists; Geological Society of Australia; Society of Economic Geologists, Pacific Exploration Technology Conference, Suva, Fiji; 10th Latin American Congress of Geology, Buenos Aires, Argentina; South African Geophysical Association, Conference, Swakomund, Namibia; European Association of Geoscientists and Engineers (EAGE), Annual Conference, Finland.

Have over 40 publications on magnetic and gravity interpretation, some of which are referenced in textbooks and manuals.

Selection of publications related to basin studies and magnetic and gravity interpretation.

Gunn, P.J., 1988 Bonaparte Basin: Evolution and Structural Framework, in Purcell P.G. and Purcell, R.(Eds), The North West Shelf, Australia, Proceedings of the Petroleum Exploration Society of Australia Symposium, Perth, 1988, 275-286.

Gunn, P.J. and Ly, K.C., 1989 The Petroleum Prospectivity of the Joseph Bonaparte Gulf Area, northwestern Australia, Australian Petroleum Exploration Association Journal 29, 509-528.

Gunn, P.J., 1996 Regional magnetic and gravity responses of extensional sedimentary basins. AGSO Journal of Australian Geology and Geophysics, 17, 115-132.

Gunn, P.J., Mackey, Y., Mitchell, J. and Cathro, D., 1995 Evolution and structuring of the Offshore Otway Basin as delineated by aeromagnetic data. Exploration Geophysics, 26, 262-268.

Gunn, P.J., Mitchell, J. and Meixner, A., 1997 Evolution and structuring of the Bass Basin as delineated by aeromagnetic data, Exploration Geophysics, 28, 214-219.

Meixner, A., Gunn, P.J., Yeates, A.N., Boucher, R.K., Fears, R.A. and Richardson, L.M., 2000 The nature of the basement to the Cooper Basin in South Australia. Exploration Geophysics, 31, 24-32.

Gunn, P.J., 1996 Application of aeromagnetic surveys to sedimentary basin studies. AGSO Journal of Australian Geology and Geophysics, 17, 133-144.

Gunn, P.J., 1996 Quantitative methods for interpreting aeromagnetic data: a subjective review. AGSO Journal of Australian Geology and Geophysics, 17, 105-114.

Meixner, A. and Gunn, P.J., 1997 Three dimensional kinematic modelling of the magnetic field of the southern Joseph Bonaparte Gulf, Exploration Geophysics, 28, 260-264.

Gunn, P.J., 1988 Hydrocarbon Discoveries in the Bonaparte Basin, in Purcell P.G. and Purcell, R.(Eds), The North West Shelf, Australia, Proceedings of the Petroleum Exploration Society of Australia Symposium, Perth, 1988, 419-424.

Gunn, P.J., 1975 Mesozoic-Cainozoic tectonics and igneous activity: Southern Australia. Jour. Geol. Soc. Aust., 22, 215-222.

Lee, J. and Gunn, P.J., 1988 Bonaparte Basin in Petroleum in Australia, the First Century. Australian Petroleum Exploration Association.

Gunn, P.J., Fitzgerald, Yassi, N., Dart, P. and Almond, R., 1997 New algorithms for visually enhancing airborne geophysical data, Exploration Geophysics, 28, 220-224.

Curriculum Vitae: Peter Gunn

Specialist consultant for magnetic and gravity surveys related to hydrocarbon exploration

One of the few such consultants who has actually worked in the seismic side of oil exploration