



PARTNERS
COMPLETE FIELD & LABORATORY SERVICES



Intertek **GEOTECH**



- **Drilling supervision**
- **Gas desorption**
- **Laboratory analysis**
- **Data management**
- **Drill hole reporting**

COAL SEAM GAS TESTING

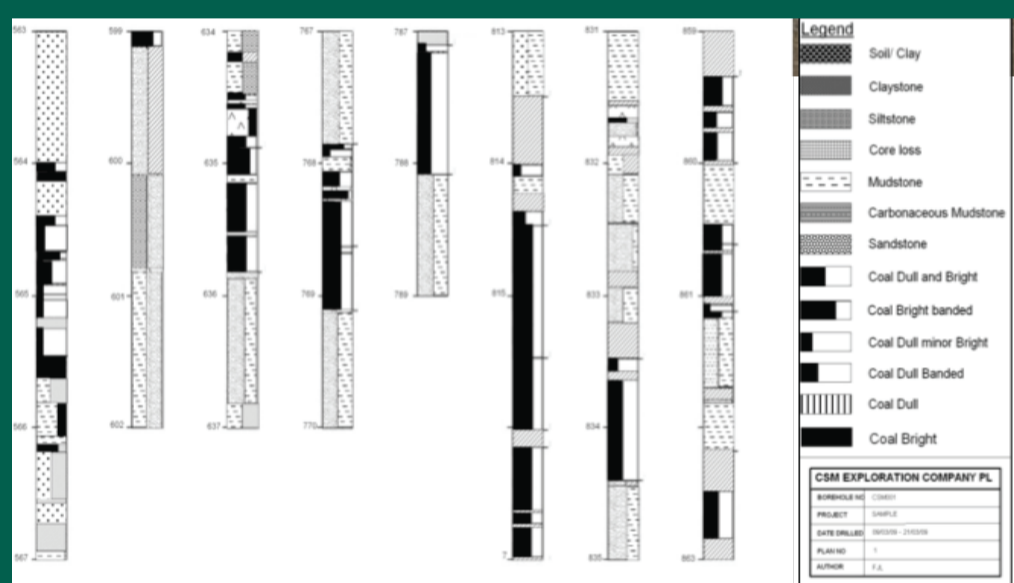
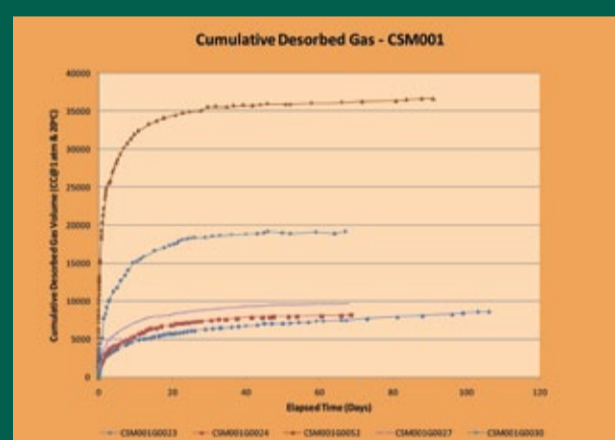
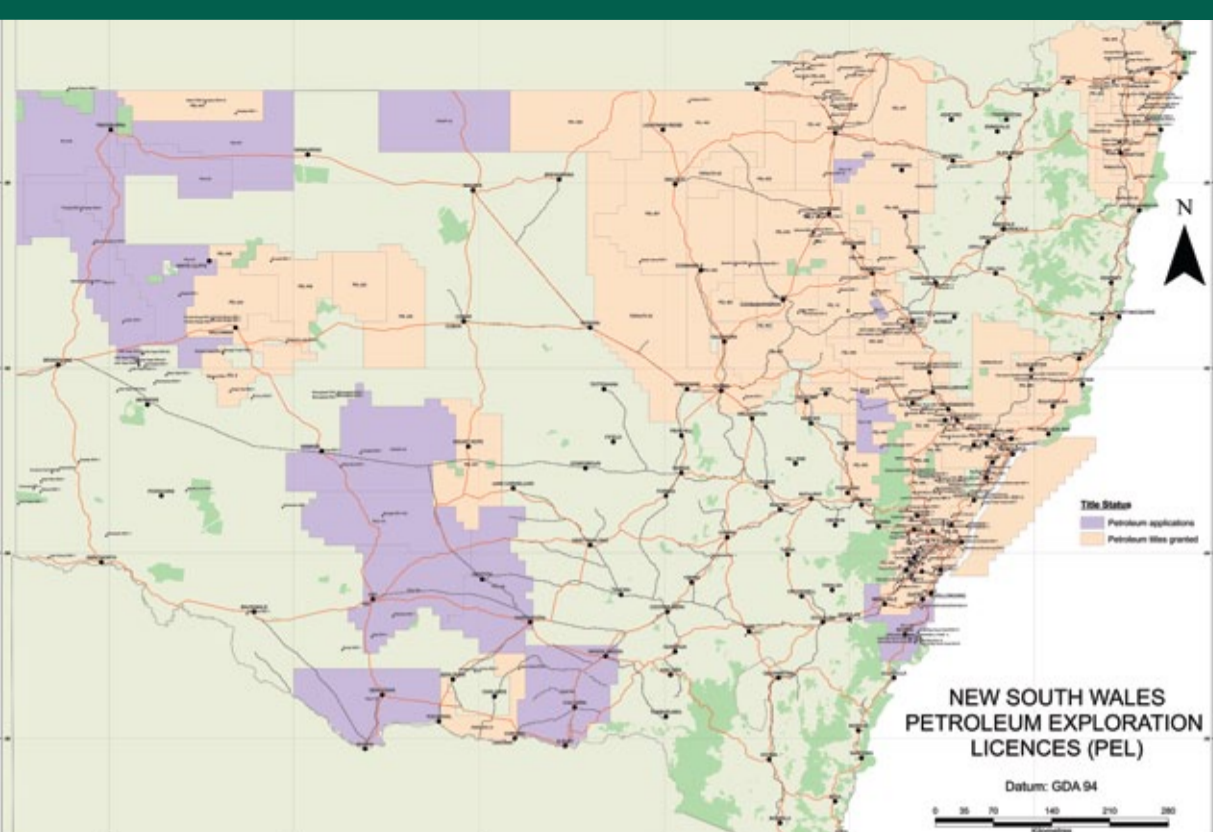
GEOS MINING SERVICES

- Full project supervision using experienced professionals
- Geologist supervision of rig and desorption process including
 - full digital English logs
 - coal lithotype logging
 - photographs of coal core
 - cleat and fracture description
 - fracture density index calculations
- Provision of canisters and all equipment necessary for full gas desorption measurement in the field
- Canister desorption
 - purging of canisters
 - desorbable gas measurement at reservoir or ambient temperature
 - collection of samples for gas composition and isotope analyses

INTERTEK GEOTECH SERVICES

Continued analysis of cores in the laboratory is no less important than in the field. Long term desorption may be performed in the laboratory, as may a range of other analyses, including:

- residual gas determination
- adsorption isotherm analysis
- gas composition
- gas isotopes
- maceral description
- vitrinite reflectance
- proximate analysis (coal); rock eval & TOC (shale)
- density
- porosity
- permeability/ultra low pulse decay permeability
- core gamma logging
- CT scanning
- XRD
- core photography
- water/brine analysis



DATA MANAGEMENT & REPORTING

- sql data management software
- data corrections including Q2 and Q3 reductions and canister head space etc
- plotting of cumulative desorbable gas curves and lost gas calculations
- reporting total desorbable gas content
- digital collation of relevant data
- merging of well-site and coal lithotype logs
- geophysical correction of logged depths
- preparation of final geological logs
- desorption analysis report incorporating the corrected log depths
- presentation of final logs in correct formats for statutory government reporting in NSW, Qld and SA

Geos Mining
Suite 301, 68 Alfred St
Milsons Point NSW 2061

Intertek Geotech
41-45 Furnace Rd
Welshpool WA 6016

Tom Bradbury or Alison Cole
+61 02 9929 6868
www.geosmining.com

Neville Phillips
+61 08 9458 8877
www.geotechnical-services.com.au