



GEMECS

Consulting Services & Training offered

*PWC Building
37 Walter Sisulu Street (Church Street)
Middelburg, MP
1055*



Company History

- **In business for 25 years**
- **Geological consulting to the mining industry**
- **Minex software training and support**
- **Head Office in Middelburg**
- **Full time complement of 7 Geologists**
- **Numerous associates as sub contactors**
 - **Geologists**
 - **Mine Engineers**
 - **Mine Planners**
 - **Surveyors**
 - **Other Technical expertise**



Services Offered....1

- **Exploration Management**
 - Plan, execute and coordinate exploration drilling projects
 - Core logging and sampling
- **Field mapping**
 - Mapping of outcrops
 - Ground Magnetometer work
- **Geological Database management**
 - Geobank & SABLE
 - Data capturing
 - Logging standards
 - Database validations
 - Database audits
 - User training
- **Production Services**
 - Openpit visits
 - Underground visits
 - Mapping
 - Face sampling
 - Quality control



Services Offered....2

- **Geological Modelling**
 - Minex
 - Geological models
 - Coal, Manganese, Chrome, Platinum (Stratigraphical ore bodies)
 - Model reviews and audits
- **Minex**
 - Approved services supplier to Dassault Systemes for Minex software training and support
 - Training in Middelburg
- **Mine design**
 - Minex, XPAC & Deswick
 - Mine design and scheduling services
 - Short term planning
 - Long term planning
- **Mining Studies**
 - Prospect & Mining permit applications
 - Conceptual Mining Studies



Services Offered....3

- **Resource Reporting**
 - **Competent persons reports**
- **Training**
 - **Core Logging and the Logical Letter Coding System (Logging standard)**
 - **Coal Quality Course**
 - **Minex Basic Training**
 - **Minex Washability**



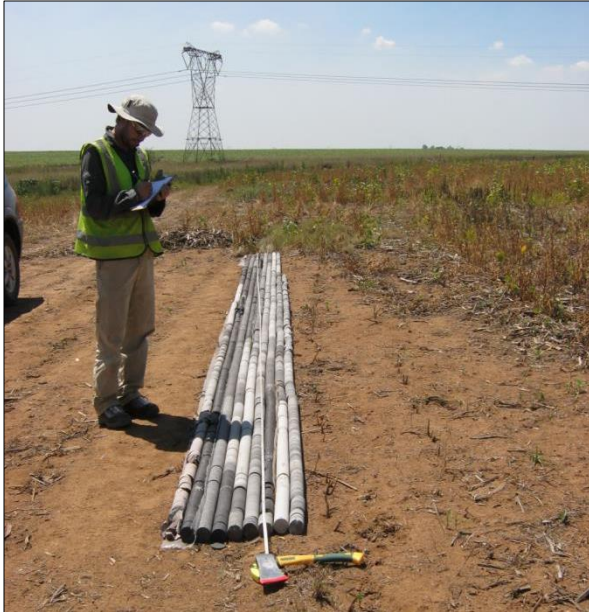
A Short Summary of

Training Courses

Offered by Gemecs (Pty) Ltd

*PWC Building
37 Walter Sisulu Street (Church Street)
Middelburg, MP
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Courses offered



- **Core Logging and the Logical Letter Coding System (2 days)**
 - This course involves the gathering of data by means of the Logical Letter Coding method from diamond drilled core. Gemecs provides practical instruction on the core logging procedure with specific intent of importing it into a Database Management System. This includes a practical demonstration involving logging of a borehole.

| BOREHOLE_ID | STRATIGRAPHIC CORRELATION | DEPTH_FROM | THICKNESS CALCULATION | DEPTH_TO | LITHOLOGY | GRAIN_SIZE | SEDIMENTARY_STRUCTURES | SECONDARY_MINERALS | COLOURS | CONTACT_TYPE | FEATURES OR STRUCTURES |
|-------------|---------------------------|------------|-----------------------|----------|-----------|------------|------------------------|--------------------|---------|--------------|------------------------|
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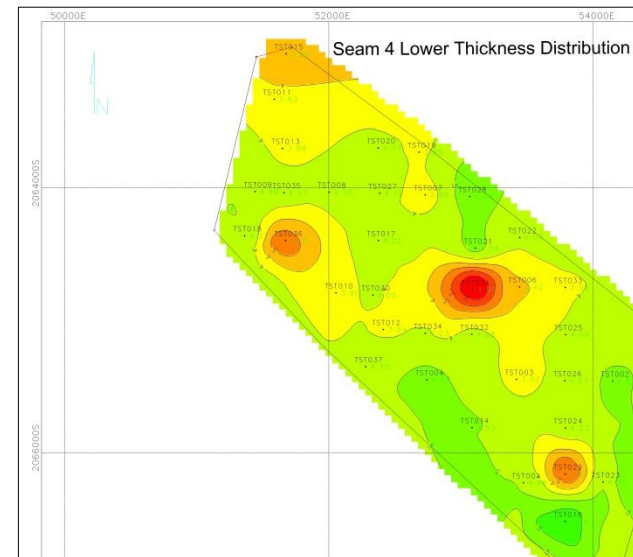
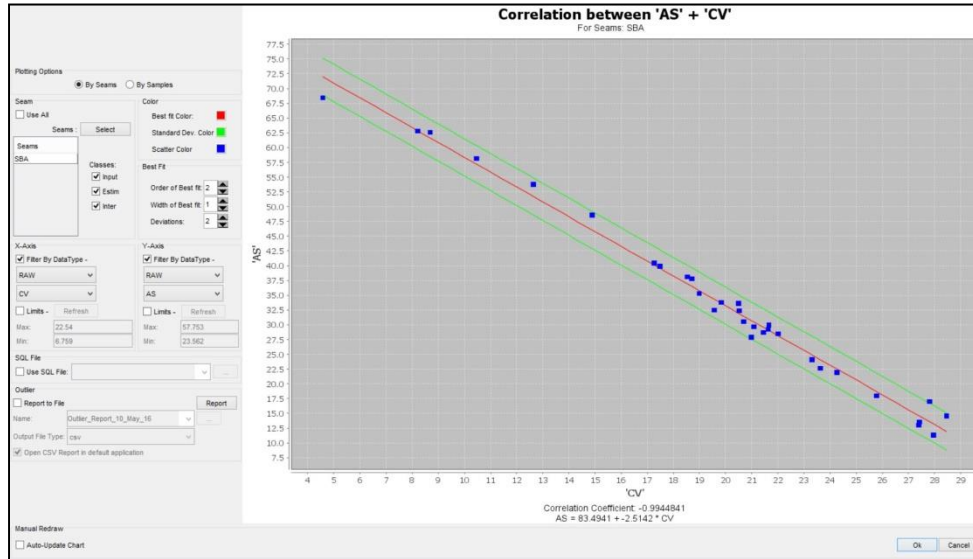
Courses offered... continued

- **Coal Quality Course (1 day)**
 - The Coal Quality course focuses on the determination and interpretation of coal properties achieved by laboratory analyses of a representative sample. It also covers the validation of the quality results, including relationships between coal properties and accepted parameters for determined values.

| Results are reported on an air-dry basis | | | | | | | |
|--|--------------------|----------|---------------|-----------|--------------|---------------------|------------|
| Wash R.D. | Fractional Results | | | | | | |
| | Moisture % | Ash % | Volatile % | F.C. % | Sulphur % | Gross C.V. MJ/kg | Yield % |
| F1.40 | 11.0 | 10.1 | 29.9 | 49.0 | 1.07 | 24.25 | 48.6 |
| F1.45 | | | | | | | 0.0 |
| F1.50 | | | | | | | 0.0 |
| F1.60 | 7.0 | 30.5 | 24.4 | 38.1 | 0.97 | 18.02 | 20.3 |
| F1.80 | 5.6 | 44.2 | 20.6 | 29.6 | 1.08 | 13.78 | 18.0 |
| S1.80 | 4.1 | 56.1 | 17.9 | 21.9 | 4.95 | 10.20 | 13.0 |
| | | | | | | | 100.0 |
| -0.5 Raw | 7.7 | 25.2 | 25.7 | 41.4 | 1.61 | 19.58 | |

Courses offered... continued

- **Minex Basic Training (4 days)**
 - This course is a practical introduction to the basic principals of building a stratified geological model. Touching on route directory and parameter setup, structural modelling steps and modelling raw analytical data.



Courses offered... continued



The screenshot shows the 'ROM Beneficiation' software window. It has a yellow title bar and a standard Windows-style window control bar. The main area is divided into several sections:

- Product Parameters** (tabbed view):
 - Seams, Variable Suffixes and Grids** (selected tab)
 - Prime Product**:
 - Prime Product
 - Minimum Yield: 0
 - Output DD Name: MOD
 - Use Cut Point
 - Variable: AAS
 - Prime Target: 0
 - Middling Product**:
 - Middling Product
 - Minimum Yield: 0
 - Output DD Name: MOD
 - Use Cut Point
 - Variable: AAS
 - Middling Target: 0
 - Reject Product**:
 - Reject Product
 - Minimum Yield: 0
 - Output DD Name: MOD
- Fit Parameters**:
 - Curve Fit Type: Spline, Piece-wise
 - Gamma: 0
- Debug/Report Option**:
 - Report Values File: [dropdown menu]
 - [...]
 - Select Mesh Points

At the bottom right, there are 'Ok' and 'Cancel' buttons. The window title bar also contains 'ROM Beneficiation'.

- **Minex Washability (1 day)**

- Practical instruction is given on the building of an analytical model based on cumulative laboratory results. The presenter shows how the model can be build using borehole washability as well as ROM Beneficiation to report several wash products with their yields and densities.



OUR CONTACT DETAILS

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Geologic

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