CoalLog Modifications v2.0 (March 2015)

CoalLog Version 2.0 includes the following changes to the previous version:

**All forms, fields and code descriptions**

Change **Hole** to **Borehole** (clarification)

**Dictionaries.doc and Dictionaries Descriptions.xlsx files**

Codes have been reordered to be consistent order of grain size or %

**Header Data**

Field **Basin** added (3 characters) (addition)

- Basin  
  - Nxx NSW (xx for basin; see list in Manual) (addition)  
  - Qxx Qld (xx for basin; see list in Manual) (addition)  
  - Sxx SA (xx for basin; see list in Manual) (addition)  
  - Txx Tas (xx for basin; see list in Manual) (addition)  
  - Vxx Vic (xx for basin; see list in Manual) (addition)  
  - Wxx WA (xx for basin; see list in Manual) (addition)

Field **Borehole Purpose**; 2 extra fields available (addition)

- Borehole Purpose  
  - BH Blasthole (addition)  
  - CL Large Diameter (addition)  
  - CS Slim Core Testing (addition)  
  - EA Acid Leachate Testing (addition)  
  - ES Stygofauna monitoring (addition)  
  - GC Compliance Gas Testing (addition)  
  - GD Gas Drainage Undiff. (addition)  
  - GE End of Hole Well (addition)  
  - GG Goaf Drainage (addition)  
  - GI Surface to In-seam Well (addition)  
  - GL Controlled Pressure Well (addition)  
  - GR Ranging Well (addition)  
  - GU Underground in Seam Gas-Riser (addition)  
  - GV Virgin Gas Testing (addition)  
  - GZ Vertical Production Well (addition)  
  - HM Multi-channel Vibrating Wire Piezometer (addition)  
  - HN Nested Standpipe Piezometer (addition)  
  - HS Standpipe Piezometer (addition)  
  - HV Vibrating Wire Piezometer (addition)
HW  Production Water Bore (addition)
SB  Ballast (addition)
SC  Cement (addition)
SD  Stone Dust (addition)
SE  Electricity (addition)
SN  Nitrogen (addition)
SR  Refuge (addition)
SP  Plug (addition)
SF  Fault Delineation (addition)
SI  Intrusion Delineation (addition)
TG  Geotech; changed from GT (modification)
TE  Extensometer (addition)
TF  Primary Hydraulic Fracturing (addition)
TL  Tiltmeter (addition)
TP  Penetrometer (addition)
TR  Geotechnical Properties (addition)
TX  Stress Test Cell/Stress overcore (addition)

Field description of Date changed to Date Surveyed (clarification)
Field Borehole Status; 1 extra field available (addition)
  • Borehole Status H Hazard in borehole (addition)
  U Unknown (addition)

Geologists Data
Field description of To Depth changed to Log To Depth (clarification)

Casing Data
Field Casing From Depth added (6.2) (addition)
Field description of To Depth changed to Casing To Depth (clarification)
Field Casing Material added (addition)
  • Casing Material FB fibreglass (addition)
    PV PVC (addition)
    SS stainless steel (addition)
    ST steel (addition)
Field Casing Type size changed from 3 to 1 characters (modification)
  • Casing Type P perforated (addition)
    S slotted (addition)
    T threaded (addition)
Field Casing Name added (4 characters) (addition)
- Casing Name  HWT  HWT thread class  (addition)
  OZCO  Ozcon casing  (addition)
  PN06  PN06 class UPVC  (addition)
  PN09  PN09 class UPVC  (addition)
  PN12  PN12 class UPVC  (addition)
  PN18  PN18 class UPVC  (addition)
  SFJ  SFJ thread class  (addition)
Field OD  (= Outside Diameter) added (3 characters, mm)  (addition)
Field description of Size changed to ID  (= Inside Diameter)  (clarification)
Field Casing Grout added (2 characters)  (addition)
  Casing Grout  AG  concrete aggregate  (addition)
  CS  cement slurry  (addition)
  CT  cuttings  (addition)
  FO  two pack foam  (addition)
  PG  pressure grouted slurry  (addition)

**Cementing Data**
Field description of From Depth changed to Cement From Depth  (clarification)
Field description of To Depth changed to Cement To Depth  (clarification)
Field description of Date changed to Cement Date  (clarification)
Field Method added (2 characters)  (addition)
  Cement Method  FS  from surface  (addition)
  PR  poly reel  (addition)
  SP  sacrifice poly  (addition)
  TR  through drill rods  (addition)

**Drilling Data**
Drilling Data split into 3 sheets (Drill Details, Drill Depth, Drill Run) to accommodate extra fields.
Field Rig No. size changed from 5 to 3 characters  (modification)
Field Rig Type size changed from 3 to 6 characters  (modification)
Field description of Date changed to Drilled Date  (clarification)
Field Size Record added (4 characters)  (addition)
Field Drill Size Depth added (7.3)  (addition)
Field Cored added (Y/N option)  (addition)
Field Depth Record added (4 characters)  (addition)
Field Kelly added (5.3)  (addition)
Field Rods added (6.3)  (addition)
Field Barrel added (5.3)  (addition)
Field Bits+Subs etc added (5.3)  (addition)
Field **Other** added (5.3)  
Field **Table Height** added (5.3)  
Field **Stickup** added (5.3)  
Field **Manual Calc To Depth** added (6.3)  
Calculated Field **Drilled Depth** added (7.3)  
Calculated Field **Drilled Length** added (5.3)  
Calculated Field **Core Loss/Gain (Run)** added (5.3)  
Calculated Field **Core Loss/Gain (Cumulative)** added (5.3)  
Field **Time (24hr) Completed** added (4 characters)  
Field **Photo** added (1 character)  
Field **Driller’s Run Length** added (5.3)  
Field **Manual Loss/Gain (Run)** added (5.3)  
Field **Loss/Gain (Cumulative)** added (5.3)  
- **Bit Type**  
  A  Auger  
  B  Blades  
  C  Core (Conventional)  
  D  Dragblade  
  H  Hammer  
  K  Rock Roller  
  M  Mill Claw  
  O  Hole Opener  
  P  PCD  
  R  Reamer  
  T  Tricone  
  U  Unknown  
  W  Core (Wireline)  
  X  Rotex  

**Lithology Data**

Codes added for **Seam** and **Horizon**  
Field description of **To Depth** changed to **Lithology To Depth**  
Field description of **Sample Type** changed to **Lithology Sample Type**  
Field description of **Sample Number** changed to **Lithology Sample Number**  
- **Sample Type**  
  AD  Age Dating  
  PN  Palynology  
  PE  Petrology  
- **Lithologies**  
  MR  Missing Record; greyed out  
  Item definition changed from Acid … to Acid/Felsic  
  Item definition changed from Basic … to Basic/Mafic  
  Order of lithologies changed to better reflect “Geological” order
• Lithology Qualifiers
  CT cannel; greyed out (clarification)
  SP sapropelic; definition changed to include cannel coal, torbanite, and boghead coal (clarification)

• Adjectives
  PN penny bands (<2mm); moved from Sed Features (modification)
  LM laminae (2-20mm) (clarification)

• Textures
  CS clast supported (clarification)
  MS matrix supported (clarification)

• Sedimentary Features
  PB penny bands; moved to Adjectives (modification)
  Order of Shape items changed to be consistent

Sample Dispatch Data (addition)

New data type added which includes:

Field **Sample Type** added (addition)
Field **Sample Number** added (addition)
Field **Field Sample Mass** added (addition)
Field **Laboratory** added (addition)
Field **Dispatch Date** added (addition)

Water Observation Data (clarification)

Field size of **Borehole** field changed from 17 to 16 spaces
Field description of **Depth** changed to **Water Test Depth**
Field description of **Date** changed to **Water Test Date**
Field description of **Sample Type** changed to **Water Sample Type**
Field description of **Sample Number** changed to **Water Sample Number**
Field description of **Flow Test Type** changed to **Water Test Type**
  • Water Test Type
    D Dry (added)
    M Observed Damp (added)
    W Observed Wet (clarification)
    I Driller injected, changed from D (modification)

RMU & Defect Data (clarification)

Field description of **To Depth** changed to **RMU To Depth**
Field description of **Length** changed to **Defect Length**
Field description of **Orientation** changed to **Defect Orientation**

Point Load Data (clarification)

Field description of **To Depth** changed to **Point Load To Depth**
Field description of **Sample Type** changed to **Point Load Sample Type**
Field description of **Sample Number** changed to **Point Load Sample Number**
Field description of **Test Type** changed to **PL Test Type**

- Failure Mode I invalid

**Corrections to CoalLog Documents**

A number of inconsistencies in the v1.2 and earlier documents have been corrected.

**Dictionaries Descriptions File.xlsx**

MD matrix supported and CP clast supported, are in Textures not in Sed Features as shown in v1.2 Dictionary Descriptions file

**Dictionaries Work File.xls and Dictionaries.csv**

Lithotype Cobbles added
CoalLog Modifications v1.2 (November 2013)

CoalLog Version 1.2 includes the following changes to the previous version:

**Geologists Data**
Field description of **Base Depth** changed to **To Depth**  (clarification)

**Casing Data**
Field description of **Base Depth** changed to **To Depth**  (clarification)

**Drilling Data**
Field description of **Geologist Base Depth** changed to **Geologist To Depth**  (clarification)
Field description of **Driller Base Depth** changed to **Driller To Depth**  (clarification)

**Lithology Data**
Field description of **Base Depth** changed to **To Depth**  (clarification)

- **Lithology**
  - DI Diamictite  (addition)
  - M1 Conglomerate (>65% matrix)  (addition)
  - M2 Conglomerate (35-65% matrix)  (addition)
  - M3 Conglomerate (<35% matrix)  (addition)
  - MY Mylonite  (addition)
  - PC Pellet Claystone  (addition)
  - VB Volcanic Breccia  (addition)

- **Hue**
  - X off-whitish  (addition)

- **Colour**
  - M multi-coloured  (addition)
  - X off-white  (addition)

- **Lithological Adjectives**
  - AB abundant, range of 30-60% added to description  (clarification)
  - CG conglomeratic instead of conglomeritic  (correction)
  - CM common (15-30%)  (addition)
  - CS claystone  (addition)
  - DO dominant (>60%)  (addition)
  - FU fusainous  (addition)
  - GG granules  (modification)
  - MN minor, range of 1-15% added to description  (clarification)
  - MS mudstone  (addition)
OC occasional, removed; replace occurrences with MN (modification)
RA rare, range of <1% added to description (clarification)
SE sparse removed, replace occurrences with RA (correction)
SP sporadic, removed; replace occurrences with MN (modification)
SS sandstone (addition)
ST siltstone (addition)

MO moderately, should not be used as an abundance (use CM common, instead).

FU fusainous, also appears in the Coal Lithology Qualifiers. The lithological adjective of FU should only be used where the Lithology Qualifier field is already occupied by other information about the coal.

Lithologies such as CS claystone, MS mudstone, SS sandstone and ST siltstone should only be used in the Lithological Adjectives to describe components of the unit that make up less than 10% of the unit.

- Lithology Interrelationships
  GG with granules of (modification)

- Weathering
  W weathered, greyed out; i.e. it is retained for historical data and discouraged from future use (clarification)

- Mechanical State
  BK blocky (addition)
  FG flaggy (addition)
  SL slabby (addition)

- Texture
  CS clast supported (addition)
  FG flaggy, moved to Mechanical State (addition)
  MS matrix supported (addition)

- Abundances
  A abundant, range of 30-60% added to description (clarification)
  C common (15-30%) (addition)
  N dominant (>60%) (addition)
  M minor, range of 1-15% added to description (clarification)
  R rare, range of <1% added to description (clarification)
  P sporadic, removed - replace occurrences with M (correction)

- Minerals/Fossils
  UN unidentified mineral (addition)

- Mineral/Fossil Assoc
  AG in amygdules (addition)
  GD glendonites (addition)
Geotech Data
Field description of **Base Depth** for RMU changed to **To Depth** (clarification)
- Weathering **W** weathered, greyed out; i.e. it is retained for historical data and discouraged from future use (clarification)

Point Load Data
Field description of **Base Depth** changed to **To Depth** (clarification)

Recommended Logging Sheets Data Entry Template
**Driller To Depth** field added to Drilling Sheet (correction)
CoalLog Modifications v1.1 (September 2012)

CoalLog Version 1.1 includes the following changes to the previous version:

**Header Data**
- **Site Id** maximum length increased from 8 to 16 characters. Recommended field length unchanged at 8 characters.  
  *(correction)*
- **Location Accuracy** Accura cy changed to **Location Accuracy** to distinguish from accuracy in the vertical direction. Field name and dictionary category changed from Survey_Accuracy to Location_Acc  
  *(clarification)*
- **Survey Co.** add to header as a 3 character field with field name of Survey_Company  
  *(addition)*
- **Survey Date** add to header as a date field with field name of Survey_Date  
  *(addition)*
- **Logs Run** X log of X-Ray added  
  *(addition)*
- **Hole Status** N cemented (in some V1.0 files cemented was incorrectly denoted as M)  
  *(correction)*

**Drilling Data**
- **Geologist Base Depth** rename **Base Depth** to **Geologist Base Depth** in Drilling Sheet. Renamed Geologist Base Depth in field description. Field name remains To_Depth.  
  *(clarification)*
- **Driller Base Depth** Driller Base Depth field added to maximum Drilling Sheet. This new field has a recommended field size of 7.2 and maximum of 8.3. It has the field name Drill_To_Depth  
  *(addition)*
- **Recovered Thickness** change field description of Recovered Thickness to Recovered Length. Field name changes to Recov_Length  
  *(clarification)*

**Lithology Data**
- **Lithologies** TT tuffite  
  *(addition)*
- **Lithology Qualifiers** the Lithology Qualifiers for sandstone (SS) also apply to:  
  - carbonaceous sandstone (XS)  
  - coaly sandstone (ZS)  
  - gravel (GV)  
  - sand (SA)  
  *(clarification)*
  for Tuff/Tuffite the following codes have been added:  
  - CS clay sized  
  *(addition)*
MS  mud sized  
TS  silt sized  
SS  sand sized  
• Lithological Adjectives  
  XC  coarser (<10% of unit)  
FF  finer (<10% of unit)  
• Core State  
  K  cuttings  
• Sedimentary Feature  
  the following Laminations descriptions had their scales changed to be consistent with the thickness units in AS1289:  
  LL  large scale cross laminations changed from >1m to >2m  
  ML  medium scale cross laminations changed from 100-1000mm to 200mm to 2m  
  SL  small scale cross laminations changed from <100mm to <200mm  
• Mineral Associations  
  MF  microflakes  
• Gas  
  the units for gas volumes changed to match common use:  
  T  trace changed from <10m$^3$/m$^2$ to <1m$^3$/t  
  L  low gas present changed from 10-25m$^3$/m$^2$ to 1-5m$^3$/t  
  M  moderate gas present changed from 25-70m$^3$/m$^2$ to 5-10m$^3$/t  
  A  abundant gas present  
  H  high gas present (10-15m$^3$/t)  
  V  very high gas present (>15m$^3$/t)  

Water Observation Data  
• Water Flow Sheet renamed to Water Observation Sheet to better reflect the information being collected  
• Flow Test Type  
  W  observed wet  
  D  driller injected water  
• Total Dissolved Solids  
  recommended length remains 5 characters but without decimals. Maximum length 6 characters also without any decimals  
• Electrical Conductivity  
  recommended length remains 5 characters but without any decimals. Maximum length 6 characters also without any decimals  

Geotechnical Dictionary  
• Dip Orientation Method in some v1.0 dictionary files the Dip Orientation Method category had the name Dip.Dir_Meth instead of Dip_Orient_Meth  

Geotechnical Data  
• RMU Type heading on Logging Sheet changed from Type to RMU Type
• Defect Type heading on Logging Sheet changed to from Type to Defect Type

• Dip Orientation in some v1.0 files this was referred to as Dip Direction instead of Dip Orientation and had the field name Defect_Dir instead of Dip_Orient

• Dip Orientation Method in some v1.0 files this was referred to as Dip Direction Method instead of Dip Orientation Method and had the field name Defect_Dir_Meth instead of Dip_Orient_Meth

Data Transfer Format
Any non CoalLog fields present in a CoalLog data transfer file should have a column name starting with “Custom_”

Test Data Files
The file CoalLog Test RMU and Defect Data.csv had an error in it. The RMU To_Depth and From_Depth of 231.04:

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should have been 231.40:

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