

Final reporting and data format requirements for the Geophysics and Drilling Collaborations Program

The Final Report must address all content points as listed in the *Final Report Template*, available on the Collaborations website: www.minerals.nt.gov.au/collaborations.

It complies with any relevant parts of the *Guideline 7: Reporting on Mineral Titles: Mineral Titles Act 2010 and Regulations* that is produced by the Department to assist explorers with their statutory reporting requirements in regards to mineral titles.

For drill programs, sample core and/or cuttings/chips must be provided to the NT Geological Survey as per the *Geological Sample Submission Procedure (Drill Core and Cuttings)*, using Approved Form 20: *Geological Sample Submission (Drill Core and Cuttings) Form* on the Collaborations website: www.minerals.nt.gov.au/collaborations.

Excerpts that are particularly relevant from *Guideline 7: Reporting on Mineral Titles: Mineral Titles Act 2010 and Regulations* are included below.

Format (Section 7.0)

Digital reporting is mandatory and the submission of relevant data in the required format provides consistent and complete reporting of activities.

All spatial data is to be submitted and reported in the Geocentric Datum of Australia 94 (GDA94).

File naming must follow section 7.1 of the Guideline as far as possible, to allow for consistent cataloguing. File names should conform to the following file naming convention:

Title id_YYYY_C_##_ {data type}.eee

Where:

- **Title id** is the tenement number; there is no space between the title type/prefix and the number ie EL12345.
- **YYYY** is a four-digit report date representing year in which the report is due (not the year of submission).
- **C** is representative of a Collaborations report.
- **##** is a two digit sequential integer for each file submitted as part of the report.
- **{data type}** either denotes the data type contained in the file corresponding to one of the abbreviations in Table 7 or for documents appended to the report, the appendix number eg appendix4,
- **.eee** is the file suffix as shown in Table 5.

For example, the file EL22222_2010_04_drillcollars.txt would be the fourth file of the 2010 report for Exploration Licence 22222 and would contain tabular data in ASCII text format. A large document included in the report as an appendix and that has been split in two would be named EL22222_2010_03_appendix2.pdf and EL7766_200004_04_appendix2.pdf.

Media (Section 8.0)

The Department will accept the report and data via:

- Email, the total report and data not to exceed 10 MB
- CD-ROM, no multisession, read only
- DVD_ROM, no multisession, read only

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- Portable hard drive, non-returnable
- USB flash drives, non-returnable
- 3592 tape cartridges for larger volume data sets, specifically seismic field data

Discs must be read-only, full-sized discs; all media must be compatible with Windows Operating System and must be supplied in a hard protective cover.

Files may be submitted in compressed form. Acceptable formats are ZIP, RAR and ECW. Self-extracting executable files are not acceptable because of potential problems with virus detection software.

All media must be individually labelled with the company name, title number(s), report type and period, and numbered if there is multiple media, for example 1/5. A list of all the files is to be included with the report.

Data specifications (Section 13.0)

Section 13.0 details acceptable data formats and specifications.

Text documents should be a text (not image) PDF (portable document format) with thumbnails. Do not embed any files as attachments within the .pdf. All associated files must be separate. Security should be set to allow copying from, but not editing of the document. Individual PDF files should not exceed 10 MB.

Numerical and tabular data must be submitted in ASCII format with a suffix of .txt. They should be tab, not comma, delimited. All units should follow the SI system or an accepted industry standard if SI is not applicable. Mixed units such as ounces or lb per metric tonne are not acceptable. Ensure that any ASCII analytic data has headers that include the units of measure for each column.

All reports should contain a scaled location map showing sample points or surveys in relation to title boundaries and eastings and northings. The use of outcrop and core photographs in reports is encouraged. Stand-alone images can be in PDF, GEOTIFF, TIFF, JPEG (Q≥95), GIF, PNG or EPS formats. Images should be reproducible at the original size with a minimum of 300 dpi. A geo-locatable image must be accompanied by the datum and projection.

The table below provides a list of suitable formats for a range of data:

Data Type	Description	Format	Parameter	Suffix
Tabular data*	Point locations, geochemistry, heavy mineral, diamond indicator and drilling data	Tab Delimited ASCII	Standard as described in <i>Sections 13.1 and 14.0</i>	.txt
Report text	Documents, figures etc. previously provided only in hardcopy	Adobe Acrobat PDF	See <i>Section 13.2</i>	.pdf
Maps, plans, figures and photographs not embodied in report text	Files of maps, plans, figures, core photographs, aerial photographs etc.	Adobe Acrobat PDF	See <i>Section 13.2</i>	.pdf
		GEOTIFF/TIFF (colour)	Reproducible at 300 dpi, 24 bit	.tif
		JPEG	Q>95, reproducible at 300 dpi	.jpg
		GIF	8 bit	.gif
		PNG		.png

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Data Type	Description	Format	Parameter	Suffix
GIS data	Data in GIS format	MapInfo Tab ESRI Shape		.tab .shp
Video clips	Fly-throughs etc	MPEG Avi		.mpg .avi
3D mine models and resource estimation	3D mine model data, resource/reserve models	See Table 6	See <i>Section 13.10</i>	
3D modelling	3D models	As appropriate to fulfil requirements in <i>Section 13.10</i> ASCII .dxf files	See <i>Section 13.10</i>	.dxf .txt
Geophysics (other than seismic)	Raw and processed located data and gridded data. For example magnetics, radiometrics, EM, DTM and gravity data	ASEG GDF2 ASEG GXF ER Mapper grid XML (including schema)		.dfn .dat .des .gxf .grd, .ers .xml, .xsd
Geophysical and other remotely sensed images	Images derived from geophysical / remote sensing surveys, e.g. TMI, Bouguer, radiometrics, Landsat 5 or 7	GEOTIFF/TIFF (colour) TIFF (greyscale) Compressed ER Mapper JPEG GIF PDF PNG	Reproducible at 300 dpi, 24 bit Reproducible at 300 dpi, 8 bit Best quality (least loss) Quality as above 8 bit See <i>Section 13.2</i>	.tif .tif .ecw .jpg .gif .pdf .png
Geophysical Inversion and Numerical Modelling	Models	Points (DXF or ASCII) Images Surfaces 3D grids (UBC Grid or GoCAD Voxet)	 See <i>Section 13.2</i> See <i>parameters above for Geophysical Images</i>	.dxf .txt .pdf .tif .jpg .gif .png .dxf See Table 6
Seismic data	Raw and processed data	SEG Y, preferably Rev. 1 SEG D		.sgy .sgd
	Navigation data	UKOOA P1/90		.uka

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Data Type	Description	Format	Parameter	Suffix
	Processed sections (refer to Petroleum data submission guidelines for further information, www.ga.gov.au)	CGM+ format with metadata (line number, shotpoint number, ...) Images	 <i>See parameters above for Geophysical Images</i>	.cgm .tif, .jpg, .gif, .pdf, .png
Petrophysical and geophysical log data	Raw and processed wireline and MWD data (refer to Petroleum data submission guidelines for further information, www.ga.gov.au)	DLIS and LIS LAS Delimited ASCII (format must be explained) WELLOGML (POSC standard)	As defined by latest Industry Standard Include schema	.lis .las .asc .xml, .xsd
	Log plots	Adobe Acrobat PDF TIFF (colour) TIFF (greyscale) JPEG GIF PNG	See Section 13.2 <i>See parameters above for Geophysical Images</i> 8 bit	.pdf .tif .tif .jpg .gif .png
	Processed down-hole velocity data	SEG Y, preferably Rev. 1		.sgy

Metadata (Section 14.0)

All data must be accompanied by metadata; presented in a file header at the top of the file of related tabular data (preferred) or as a separate file.

Metadata should include:

- Location of the data
- Date the data were produced
- Date the data were altered
- Parameters controlling the data acquisition
- Parameters controlling the data's alteration
- Name of the company for whom the data was produced
- Title(s) under which the data was produced
- Activity which produced the data. Eg. Drilling
- Name of the contractor producing the data
- Any translation parameters required for conversion of the data (especially location data)
- Equipment used to generate the data
- Original format of the data
- Definition of codes