ANEXO 1

Petroleum Operations Notice 9 (PON 9) - Reporting of well information

Type	Remarks	NDR standard 8 (formerly CS8) code	Form and manner	Reported by
Authority for expenditure, partner consents, etc	Documentation to be reported. A summary in the Operator's End of Well Report would be adequate	PRE_PROP (closest match), PRE_GEN	Documents: PDF/A with machine readable text Digital deviation data: IOGP P7/2000 Digital log data: LAS or DLIS format Photographs: JPEG, PNG, or multi-page PDF (please see note 8 below)	6 months after the date of completion of the well as recorded in WONS (should therefore have already been reported if included in "basic set" set out in previous versions of this document) Information arising from subsequent well activity should be reported no later than 6 months after it was created
Geological/well proposals	Providing basic details of well location, seismic structure, basic well evaluation, mud programme and well evaluation plan. May otherwise be included in geological and/or drilling programme	PRE_PROP		
Geological programme	Describing the full structural geological setting, cross sections, stratigraphic column, well evaluation programme – (including coring, logging (wireline/LWD/MWD), mud logging etc.), pore pressure and temperature profiles and other information from geological models, etc. Basic details of contractors, the well operator, and equity partners must also be reported. Alternatively, this may be included in drilling programme	PRE_GPROG		
Drilling/ operations programme	Describing the planned design of the well/wellbore such as drill bit diameters, casing types, shoe depths, kick-off points, deviation, plug depths etc. May be combined with the geological programme,	PRE_DPROG		

	above. For non-drilling operations, a similar level of appropriate information for the type of activity is required			
Site survey	Report on rig site conditions, shallow gas, other hazards, bathymetry for the proposed well. Information arising from 2D shallow seismic surveys must be reported as specified in the geophysics section	PRE_SITE		
Rig positioning report (for mobile unit)	Documents the actual siting of the rig	PRE_MOVE		
Daily (operations) reports	May be reported as separate reports or included in contractor daily operations reports. Full reports must be reported in addition to any summary included in the end of well report	DRILL_HIST (closest match)		
Definitive deviation survey	The final, definitive deviation survey as approved by the well operator on behalf of the other licensees, including the finalised deviation survey data used as a positional reference for all the other data that requires positional referencing, and associated reports (including the deviation survey end of well report)	DRILL_DEV (report), WDD_ FILE (digital file)		
Casing/ cementing end of well report	Full reports must be reported in addition to any summary in the operator's end of well report	DRILL_HIST, DRILL_GEN		
Mud contractor end of well report	Full reports must be reported in addition to any summary in the operator's end of well report	DRILL_GEN		

LWD/MWD end of well report	Full reports must be reported in addition to any summary in the operator's end of well report	DRILL_MWD		
Mud logging end of well report	Report typically includes expected prognosis, drilling dynamics data, lithology and provisional formation tops, and includes associated logs (formation evaluation, ditch gas, temperature, pressure evaluation, etc.)	DRILL_MUD		
Core operations report	Report from the coring contractor. Alternatively, may be included in the operator's end of well report	CORE_GEN		
Biostratigraphy, palynology, and palaeontology reports	Typically provided by the contractor. Includes reports on palaeontological and palynological analysis activities, interpretations and conclusions. Will include zones, species listings and range charts, and includes report from wellsite services, where available	GEOL_BIO		
Geochemistry report	Typically provided by the contractor. Includes details of methodology, results, and interpretations	GEOL_CHEM		
Conventional core analysis report and core photos	Typically provided by the contractor. Details of conventional core analysis activity and results. Includes lithological descriptions, porosity, permeability, saturations, matrix densities, and core photos, typically referenced using driller's depths	CORE_CCA		
Special core analysis (SCAL) report	Special core analysis performed on preserved samples, including relative permeability data,	CORE_SCAL		

	capillary pressure test data, any other contractor derived data and results			
Sedimentology, petrography, and petrology	Reports detailing rock properties determined by logging and/or facies descriptions of core	GEOL_SED		
Pressure, volume, temperature (PVT) and other fluid analysis	Details of measurement of phase behaviour and pressure/volume /temperature of reservoir fluids, as typically performed on samples from wireline well testing e.g. MDT, or drill stem testing	TEST_FLUID, TEST_PLT		
Contractor well testing reports	Reports arising from drill stem tests or equivalent	TEST_GEN, TEST_DST		
Other bespoke contractor reports (engineering, geological, geophysical, petrophysical)	Other specialist reports provided by various contractors, e.g. chemostratigraphy, goniometry on cores, etc	ENG_GEN, GEOL_GEN, CORE_GEN, GEOL_PPHYS, GEOL_DIP		
Open hole wireline	Images and digital data arising from all logs run (includes gamma ray, sonic, density and neutron logs). All logs recorded using wireline, slickline, TLC pipe conveyed or coiled tubing tool conveyance methods	LOG_WIRE (images), DWL_ WIRE (digital)		
Core data curves	Including core gamma ray. Typically referenced to driller's depths, and used to adjust cores to log depths on the composite log	LOG_CORE		
Cased hole and tubing wireline	Images and digital data arising from all logs run (includes cement bond logs, perforation logs and slickline logs)	LOG_CASE		
Well test/ formation test logs	Logs arising from formation testing tools (e.g. PLT, RFT, TDT, MDT etc.). May include details of samples collected	LOG_TEST (images), DWL_TEST		

Composite well logs	Image log with full well header information, showing all primary wellbore measurements, including: formation tops, chronostratigraphy, lithostratigraphy, lithologies, selected log curves, DST intervals (with summary results), cored intervals (depth shifted), sidewall cores, formation tester results, background gas, hydrocarbon shows, casing/liner depths, deviation data, measured 2 way times to formation tops	LOG_COMP		
Joined well logs	Joined set of digital log curves spliced together over full depth range of wellbore. Typically used for correlation purposes it will be the most accurate and complete record of the main log measurements such as sonic, density, neutron and resistivity. Information on the processing of well logs, including a full audit trail, must also be reported	JWL_FILE, JWL_AUDIT		
Computer processed interpretations (CPI)/ petrophysical data log	Spliced, environmentally corrected log curves for use in petrophysical interpretation. Will normally be specialist curves not normally included in a standard composite log. Associated audit trails should also be reported	LOG_CPI		
Borehole seismic data	Includes reports, logs and digital data obtained as part of VSP profile, offset VSP, Velocity survey etc. All sonic/velocity and two-way time (TWT) logs including calibrated sonic and density logs and any	GPHYS_VSP, GPHYS_ QCVSP, GPHYS_ CSHOT, LOG_VEL, LOG_SEIS, VSP_FILE,		

	derived calculations. Synthetic seismograms	VSP_SEGY, CSHOT_FILE		
LWD/MWD log data	Data and measurements collected while drilling	LOG_MWD (images), DWL_ MWD (digital)		
Borehole imaging data	Includes dipmeter logs, borehole televiewer images, etc.	LOG_DIP		
Wellsite lithology log	As provided by the wellsite geologist	LOG_LITH		
Wellsite core logs	Core descriptions as provided by the wellsite geologist	LOG_CORE		
Operator's end of well report	Also known as the drilling report, end of well report or end of job report. Includes summaries of all contractor activities, and is generated at the end of each well lifecycle activity. Multiple reports may exist for a single well / wellbore. Typically includes: LWD/MWD/mud/mud logging/casing/ cementing/surveys/etc. plus final well schematic, lessons learned, cementing, mud logging summary, QC reports, well examiner certificate, and barrier pressure test/leak off test summary. May contain a summary of daily drilling reports.	WELL_COMP; also referencing ENG_GEN, ENG_PROD, ENG_COMPS, ENG_ABAND, DRILL_HIST, DRILL_GEN depending on content		
Abandonment reports	all abandonment reports (including intermediate abandonments that occur as part of suspension operations) must be provided even if included in Operators End of Well Report	ENG_ABAND		
Operator's geological end of well reports	Includes final formation tops, stratigraphy, logging summary, coring summary, core depth shifts (driller to logger)	GEOL_GEOW		

	where relevant. Samples collected, and fluid descriptions. Perforated intervals. Studies conducted. Formation pressures and gradients from formation pressure logs. May contain petrophysical interpretation with audit trail			
Operator's petrophysical end of well report	Petrophysical interpretation with audit trail if not included as part of the geological end of well report	GEOL_PPHYS		
Perforation and reperforation reports and logs	Report on perforating and perforated or reperforated intervals	LOG_CASE, ENG_COMPS		
Well schematic	The final (or most current) well schematic for the well as included in the drilling programme (as-is and planned) and in the end of well report, as submitted to WONS	ENG_ABAND		
Seabed clearance certificate	A seabed clearance certificate may be applicable to more than one well. Normally included in the end of well report or abandonment report and also provided to WONS			