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**CDRS – NEW TRANSACTION FORMATS**

If a chapter reference is given in the second column (Ref.) this is a reference to the actual chapter in the existing [CDRS user manual](http://www.ptil.no/regelverk/r2002/CDRS_brukerveiledning_e.htm) for further explanation.

Use of yellow color means that the field is new.

Use of grey color means that changes are made, but the field is not new.

Use of blue color means that the WITSML tag is optional within the actual report part.

Report part II thru report part XVIII are all optional if no data is available to be reported.

#### REPORT part I: Header

#### This report part must always be included in the XML file

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <wellboreAlias><name> where <namingSystem> = ‘NPD code’ | WELLBORE | char 40 | WELLBORE identification. [See desc. at NPD homepage](http://www.npd.no/engelsk/cwi/pbl/en/index.htm). |
| <wellboreAlias><name> where <namingSystem> = ‘NPD number’ | NPDID\_wellbore | Int | Lookup from NPD Factpages. [See desc. at NPD homepage](http://www.npd.no/engelsk/cwi/pbl/en/index.htm) |
| <drillReport><versionKind> | Version | char | Report version. Use preliminary, normal or final |
| < drillReport><dTimStart> | From report date | date | Date and time of the start of the reporting period |
| < drillReport><dTimEnd> | To report date | date | Date and time of the end of the reporting period |
| < drillReport><createDate> | Report create date | date | The date and time of the report creation |
| <wellboreInfo><dTimSpud> | Spud date | date | Date when the drilling equipment hit the seabed. When predrilling has not been performed, spud date is the date when the main drilling towards the target started.   Is also used in case of pilot holes. |
|  |  |  |  |
| <wellboreInfo><dTimPreSpud> | Predrilled spud date | date | Use in case of predrilling of wellbore. Date when the drilling equipment hit the seabed. No value is given if pre drilling has not occurred. **Predrilling is the activity of drilling a development wellbore to a limited depth for setting the conductor. The wellbore is spuspended and the drilling will be completed later (of the same or another drilling facility).** |
| <wellboreInfo><dateDrillComplete> | Completed date | date | Date when the drilling activity is completed. For an exploration or observation wellbore it is the date when the plugging is completed or wellbore is suspended. For a development wellbore it is the date when the wellbore is at total depth and the last casing or liner is set. No value is given if data is reported before wellbore is completed. |
| <wellboreInfo><operator> | 3.1.2-Operator | char | Drilling operating company |
| <WellboreInfo><drillContractor> | 3.1.3-Contractor | char | Drilling contractor name |
| <wellboreInfo><rigAlias><name> where <namingSystem> = ‘NPD code’ | NPDID\_facility | int | Rig identification code. [See desc. at NPD homepage](http://www.npd.no/engelsk/cwi/pbl/en/index.htm) |
| <wellboreInfo><rigAlias><name> where <namingSystem> = ‘NPD name | 3.1.4-Facility name | char | Name of the fixed og moveable facility. [See desc. at NPD homepage](http://www.npd.no/engelsk/cwi/pbl/en/index.htm) |

* Former Program part I, II, III are removed
* Former Report part I a) Well classification is removed
* The rest of former Report part I is included in this part (Report part I: Wellbore information)

#### REPORT Part II: Status

#### To be reported at end of report period

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| < statusInfo ><dTim> | 3.2-RDATE | date | The date and time that for which the well status is reported |
| <statusInfo><md> | 3.2-MD | meter | The measured depth (RKB) at end of report period. |
| <statusInfo><tvd> | 3.2-TVD | meter | True vertical depth (RKB) at end of report period. |
| <statusInfo><mdPlugTop> | 3.2-MPBD | meter | Measured plug back depth (RKB) at at end of report period. If the well is not being plugged back at the present, then exclude this tag |
| <statusInfo><diaHole> | 3.2-PHASE | inch | Size of the present phase. If phase changed during the 12 first hours of the 24 hours report, write size of the new phase. If the phase did not change, or changed during the last 12 hours of the 24 hours report, then exclude this tag |
| <statusInfo><mdDiaHoleStart> | 3.2-PCMD | meter | Measured depth (RKB) to the transition point. The operator must define when phase is changing. |
| <statusInfo><diaPilot> | 3.2-PHSIZE | inch | Size of the pilot hole |
| <statusInfo><mdDiaPilotPlan> | PHMD | meter | Pilot Hole planned Measured depth (RKB) |
| <statusInfo><tvdDiaPilotPlan> | 3.2-PHTVD | meter | Pilot Hole planned True Vertical Depth (RKB) |
| <statusInfo><mdKickoff> | 3.2-KPMD | meter | Measured depth (RKB) to the kickoff point |
| <statusInfo><tvdKickoff> | KPTVD | meter | True vertical depth (RKB) to the kickoff point |
| <statusInfo><strengthForm> | 3.2-FSLM | g/cm³ | Measured formation strength. LOT and FIT has to be reported as a gradient. Data has to be given in equivalent mud weight - r.d. |
| <statusInfo><mdStrengthForm> | 3.2-FSMD | meter | Measured depth (RKB) where formation strength is measured |
| <statusInfo><tvdStrengthForm> | FSTVD | meter | True vertical depth (RKB) where formation strength is measured |
| <statusInfo><presTestType> | 3.2-TESTTYPE |  | Test type (Leak off test or Formation Integrity test) LOT / FIT |
| <statusInfo><diaCsgLast> | 3.2-CSDIM | inch | Outer diameter of the last casing |
| <statusInfo><mdCsgLast> | 3.2-CSMD | meter | Measured depth (RKB) to the last casing shoe |
| <statusInfo><tvdCsgLast> | CSTVD | meter | True vertical depth (RKB) to the last casing shoe |
| <statusInfo><mdPlanned> | DEPTHPLAN | meter | Changes between plan depth in the drilling program (MD) and real drilled depth (MD). Use pluss or minus to indicate hours before plan or after plan. **I.e “-2”, “+3”** |
| <statusInfo><distDrill> | DRILLED24 | meter | Meter drilled last 24 hours. |
| <statusInfo><elevKelly> | ELEVATION | meter | Depth from RKB to MSL |
| <statusInfo><sum24Hr> | LASTSUMMARY | text | Last 24 hours summary |
| <statusInfo><forecast24Hr> | NEXTSUMMARY | text | Next 24 hours summary |
| <statusInfo><ropCurrent> | ROP | m/hour | Rate of penetration at end of report period |

### REPORT Part III: Bit data

#### To be reported at end of report period

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <bitRecord> <numBit> | RUN\_NO | integer | Sequence number of the bit |
| <bitRecord> <diaBit> | BITSIZE | inch | Size of the bit |
| <bitRecord> <codeMfg> | BITTYPE | string | Manufactorers code of the bit used ( i.e HCR605S) |
| <bitRecord> <manufacturer> | MANUFACTORER | string | Name of the manufactorer of the bit |

### REPORT Part IV: Mud weight

#### To be reported at end of report period

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <fluid><dTim> |  | date | The time when fluid readings were recorded |
| <fluid> <presBopRating> | 3.3-BOP | bar | Pressure rating of the BOP stack |
| <fluid> <md> | 3.3-MD | meter | Measured depth (RKB). This depth apply to both mud name, type and weight, viscosity and yield point. |
| <fluid> <tvd> | 3.3-TVD | meter | True vertical depth (RKB). This depth apply to both mud name, type and weight, viscosity and yield point. |
| <fluid> <type> | 3.3-MNAME | text | Name of drilling fluid used |
| <fluid> <mudClass> | MTYPE | text | (OIL/WATER/OTHER) |
| <fluid> <density> | 3.3-MWEIGHT | g/cm³ | Drilling/completion fluid weight |
| <fluid> <pv> | 3.3-VISC | mPa\*s | Drilling/completion fluid viscosity |
| <fluid> <yp> | 3.3-YP | Pa | Drilling/completion fluid yield point |

### REPORT Part V: Pore pressure

#### To be reported at end of report period

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| < porePressure><dTim> |  | date | Time when the readings was made |
| <porePressure><readingKind> |  | text | Kind of reading |
| <porePressure><md> | 3.3-MD | meter | Measured depth (RKB) |
| <porePressure><tvd> | 3.3-TVD | meter | True vertical depth (RKB) |
| <porePressure><equivalentMudWeight> | 3-3-EPPRESS | g/cm³ | Estimated pore pressure at end of report period, eventually adjusted for measured pressure. |

### REPORT Part VI: Present operation

If drilling information is available after the time given in the WITSML tag “<drillReport><dTimEnd>”, this report part shall be used. I.e. if dTimEnd is “2006-06-06T24:00:00.000” Report VI shall give the activty from 24.00 to 06.00. The description shall include depth.

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <extendedReport> | To report time | date | The time when activities for this part ends |
| <extendedReport> | Description | text | Description |

### REPORT Part VII: Survey

Only the latest datset should be reported. All types of directional surveys measuring azimuth and/or inclination have to be reported.

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| < surveyStation ><dTim> |  | date | The date at which the directional survey took place |
| <surveyStation><md> | 3.5-MD | meter | Measured depth (RKB) |
| <surveyStation><tvd> | 3.5-TVD | meter | True vertical depth (RKB) |
| <surveyStation><azi> | 3.5-AZIMUTH | degree | Measured azimuth in degrees (0 - 360) |
| <surveyStation><incl> | 3.5-INCL | degree | Measured inclination. If the inclination should be measured two times at the same depth, and with different results, the last reported inclination mesurement will be considered valid. |

Former parameter SSM is removed

### REPORT Part VIII: Operation/mode

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <activity><dTimStart> | 3.6-START | date | Time when the operation started |
| <activity><dTimEnd> | 3.6-STOP | date | Time when the operation stopped |
| <activity><md> | 3.6-MD | meter | Relevant measured depth (RKB). As a rule, the sub operation will most likely determine the depth. See the list of legal sub operation depths. Also see the list for the main operation depths. |
| <activity><tvd> | TVD | meter | Relevant true vertical depth (RKB). As a rule, the sub operation will most likely determine the depth. See the list of legal sub operation depths. Also see the list for the main operation depths. |
| <activity><phase> | 3.6-SUPERIOR | text | Type of equipment |
| <activity><proprietaryCode> | 3.6-MAINOP and 3-6 SUBOP | text | Main operation and sub operation |
| <activity><stateDetailActivity> | 3.6-SUBMODE | text | Sub mode |
| <activity><state> | 3.6-MAINMODE | text | Main mode |
| <activity><comments> | 3.6-TEXT | text | Description of the activity |

The parameters SUBMODE1 and SUBMODE2 are removed

The parameters MAINOP and SUBOP are collected in the new <witsml:proprietaryCode> tag

### REPORT Part IX: Log

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <logInfo><dTim> |  | date | The date and time that the log was completed |
| <logInfo><runNumber> | 3.7-LOGRNO | text | Log run number , starting with number one as the first log run |
| <logInfo><serviceCompany> | 3.7-LOGCOMP | text | Name of the logging company |
| <logInfo><mdBottom> | 3.7-BMD | meter | Measured depth at bottom of the log interval (RKB) |
| <logInfo><mdTop> | 3.7-TMD | meter | Measured depth at top of the log interval (RKB) |
| <logInfo><tvdBottom> | BTVD | meter | True vertical depth at bottom of the log interval (RKB) |
| <logInfo><tvdTop> | TTVD | meter | True vertical depth at top of the log interval (RKB) |
| <logInfo><mdTempTool> | MIMD | meter | Measured depth to measuring instrument of the logging temperature tool |
| <logInfo><tvdTempTool> | MITVD | meter | True vertical depth to measuring instrument of the logging temperature tool |
| <logInfo><tool> | 3.7-LOGTYPE | text | Name/type of the logging tool |
| <logInfo><tempBHCT> | BHCT | celcius, decimal | Bottom Hole Circulation Temperature |
| <logInfo><tempBHST> | BHST | celcius, decimal | Bottom Hole Static Temperature |
| <logInfo><eTimStatic> | TSCS | int | Time since circ. stopped (hours, des.number) |

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### REPORT Part X: Core

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| < coreInfo ><dTim> |  | date | The date and time that the core was completed |
| <coreInfo><coreNumber> | 3.8 CNO | text | Core number, starting with core number one as the first core cut in the well |
| <coreInfo> <mdBottom> | 3.8 BMD | meter | Measured depth at bottom of the core interval (RKB) |
| <coreInfo> <mdTop> | 3.8 TMD | meter | Measured depth at top of the core interval (RKB) |
| <coreInfo> <tvdBottom> | BTVD | meter | True vertical depth at bottom of the core interval (RKB) |
| <coreInfo> <tvdTop> | TTVD | meter | True vertical depth at top of the core interval (RKB) |
| <coreInfo> <lenRecovered> | 3.8 RLENGTH | meter | Core recovery lenght |
| <coreInfo> <recoverPc> | 3.8 RPERCENT | % | Percentage core recovery |
| <coreInfo> <lenBarrel> | 3.8 BLENGTH | meter | Length of core barrel |
| <coreInfo> <innerBarrelType> | 3.8 BTYPE | text | Name of the inner barrel type |
| <coreInfo> <coreDescription> | 3.8 TEXT | text | Description |

### REPORT Part XI: Well test

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <wellTestInfo> <dTim> |  | date | Date and time that the well test was completed |
| <wellTestInfo> <testType> | 3.9 TESTTYPE |  | Type of test |
| <wellTestInfo> <testNumber> | 3.9 TESTNO |  | Test number |
| <wellTestInfo> <mdBottom> | 3.9 BMD | meter | Measured depth at bottom of the test interval (RKB) |
| <wellTestInfo> <mdTop> | 3.9 TMD | meter | Measured depth at top of the test interval (RKB) |
| <wellTestInfo> <tvdBottom> | BTVD | meter | True vertical depth at bottom of the test interval (RKB) |
| <wellTestInfo> <tvdTop> | TTVD | meter | True vertical depth at top of the test interval (RKB) |
| <wellTestInfo> <chokeOrificeSize> | 3.9 CSIZE | millimetre | Size of the choke at max flow conditions |
| <wellTestInfo> <densityOil> | 3.9 OILGRAV | g/cm³ | Gravity of the produced oil |
| <wellTestInfo> <flowRateOil> | 3.9 OILPROD | m³ pr day | Amount of produced oil per day at max flow conditions |
| <wellTestInfo> <densityWater> | WATERGRAV | g/cm³ | Gravity of the produced water |
| <wellTestInfo> <flowRateWater> | 3.9 WATERPROD | m³ pr day | Amount of produced water per day at max flow conditions |
| <wellTestInfo> <densityGas> | 3.9 GASGRAV | g/cm³ | Gravity of the produced gas |
| <wellTestInfo> <flowRateGas> | 3.9 GASPROD | Mm³ pr day | Amount of produced gas per day at max flow conditions |
| <wellTestInfo> <presShutIn> | 3.9 FSIP | MPa | Final shut in pressure |
| <wellTestInfo> <presFlowing> | 3.9 FFP | MPa | Final flow pressure |
| <wellTestInfo> <gasOilRatio> | 3.9 GOR | m³/m³ | Gas oil ratio at max flow conditions |
| <wellTestInfo> <presBottom> | 3.9 BHP | MPa | Bottom hole pressure |
| <wellTestInfo> <waterOilRatio> | 3.9 WOR | m³/m³ | Water oil ratio at max flow conditions |
| <wellTestInfo> <carbonDioxide> | 3.9 CO2 | ppm | Content of CO2 if present |
| <wellTestInfo> <chloride> | 3.9 CL | ppm | Cl content of produced water |
| <wellTestInfo> <hydrogenSulfide> | 3.9 H2S | ppm | Content of H2S if present |
| <wellTestInfo> <volOilTotal> | 3.9 TOTALPROD  OIL | m³ | Amount of produced and burned oil per well test. |
| <wellTestInfo> <volGasTotal> | 3.9 TOTALPROD  GAS | Mm³ | Amount of produced and burned gas per well test. |
| <wellTestInfo> <volWaterTotal> | 3.9 TOTALPROD  WATER | m³ | Amount of produced water per well test. |
| <wellTestInfo> <volOilStored> | 3.9 TOTALOIL  STOREDUP | m³ | Amount of oil stored per well. |

### REPORT Part XII: WFT test ( Well formation test)

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <formTestInfo><dTim> |  | date | Date and time that the wireline formation test was completed |
| <formTestInfo><md> | 3.10-MD | meter | Measured depth (RKB) |
| <formTestInfo><tvd> | 3.10-TVD | meter | True vertical depth (RKB) |
| <formTestInfo><presPore> | 3.10-FPRESS | MPa | Measured formation pressure |
| <formTestInfo><goodSeal> | 3.10-GSEAL |  | Was it a good seal ( YES/NO) |
| <formTestInfo><mdSample> | 3.10-SDMD | meter | Measured sample depth (RKB) |
| <formTestInfo><dominateComponent> | 3.10-FTYPE |  | Dominant sample component |
| <formTestInfo><densityHC> | 3.10-GRAV | g/cm³ | Gravity of the hydrocarbon component. . If, however, the hydrocarbon component is gas, it has to be relative to air. |
| <formTestInfo><volumeSample> | 3.10-VOL | dm³ | Volume of the recovered sample |
| <formTestInfo><description> | 3.10-TEXT | text | Description |

Former report part XI – Weather and report part XII – Remarks are removed

### REPORT Part XIII: Lithology and shows

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <lithShowInfo><dTim> |  |  | Date and time that the tests were completed |
| <lithShowInfo><mdBottom> | 3.13-BMD | meter | Measured depth at bottom of the lithology interval (RKB) |
| <lithShowInfo><mdTop> | 3.13-TMD | meter | Measured depth at top of the lithology interval (RKB) |
| <lithShowInfo><tvdBottom> | BTVD | meter | True vertical depth at bottom of the lithology interval (RKB) |
| <lithShowInfo><tvdTop> | TTVD | meter | True vertical depth at top of the lithology interval (RKB) |
| <lithShowInfo><show> | SHOWS | text | Description |
| <lithShowInfo><lithology> | 3.13-LITHOLOGY | text | Description |

### REPORT Part XIV: Equipment fail

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <equipFailureInfo><dTim> | 3.6-STOP | HH:MM | Time when the operation stopped, leading zeroes. |
| <equipFailureInfo><md> | 3.6-MD | meter | Measured depth (RKB) |
| <equipFailureInfo><tvd> | TVD | meter | True vertical depth (RKB) |
| <equipFailureInfo><equipClass> | 3.14-MAINSYS and 3.14-SUBSYS | text | Main and sub equipment system |
| <equipFailureInfo><eTimMissProduction> | 3.14-MINUTES |  | Missed minutes |
| <equipFailureInfo><dTimRepair> | 3.14-FDATE |  | Finish date |
| <equipFailureInfo><description> | 3.14-TEXT | text | Description |

The parameters SUPERIOR, MAINOP and SUBOP are removed

### REPORT PART XV: Well Control Incident

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks | |
|  |  |  |  | |
| <controlIncidentInfo><dTim> | 3.6-STOP | date | Time when the operation stopped. | |
| <controlIncidentInfo><mdInflow> | 3.6-MD | meter | Measured depth (RKB) of influx zone | |
| <controlIncidentInfo><tvdInflow> | 3.2-TVD | meter | True vertical depth (RKB) of influx zone | |
| <controlIncidentInfo><phase> | 3.6-SUPERIOR | text | Type of equipment | |
| <activity><proprietaryCode> | 3.6-MAINOP and 3-6 SUBOP | text | Aborted main operation and sub operation |
|  |  |  |  | |
| <controlIncidentInfo><eTimLost> | 3.15-MINUTES | int | Missed minutes | |
| <controlIncidentInfo><dTimRegained> | 3.15-FDATE | date | Finish date | |
| <controlIncidentInfo><diaBit> | 3.15-BITSIZE | inch | Bit size | |
| <controlIncidentInfo><mdBit> | 3.15-BITDEPTH | meter | Bit depth | |
| <controlIncidentInfo><wtMud> | 3.3-MWEIGHT | g/cm³ | Drilling/completion fluid weight | |
| <controlIncidentInfo><porePressure> | 3.3-PPRESS | g/cm³ | Pore pressure | |
| <controlIncidentInfo><diaCsgLast> | 3.2-CSDIM | inch | Outer diameter of the last casing | |
| <controlIncidentInfo><mdCsgLast> | 3.2-CSMD | meter | Measured depth (RKB) to the last casing shoe | |
| <controlIncidentInfo><volMudGained> | 3.15-GAINVOL | m³ | Gain volume. **Only initial value shall be reported** | |
| <controlIncidentInfo><presShutInCasing> | 3.15-SICP | bar | Shut in casing pressure.  **Only initial value shall be reported** | |
| <controlIncidentInfo><presShutInDrill> | 3.15-SIDPP | bar | Shut in drillpipe pressure. **Only initial value shall be reported** | |
| <controlIncidentInfo><incidentType> | 3.15-KICKCLASS | text | Kick classification | |
| <controlIncidentInfo><killingType> | 3.15-KILLPROC | text | Killing procedure | |
| <controlIncidentInfo><formation> | 3.15-FORMATION | text | Formation at kick depth | |
| <controlIncidentInfo><tempBottom> | 3.15-BHTEMP | celsius | Bottom hole temperature | |
| <controlIncidentInfo><presMaxChoke> | 3.15-CHOKEPRESS | bar | Maximum choke pressure | |
| <controlIncidentInfo><description> | 3.15-TEXT | text | Free-text lines | |

The parameters MAINOP and SUBOP are collected in the new <witsml:proprietaryCode> tag

### REPORT part XVI: Preliminary stratigraphy

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <stratInfo><dTim> |  | date | Date and time at which a preliminary zonation is established |
| <stratInfo><mdTop> | 2.3-MD | meter | Measured depth to top formation/zone (RKB) |
| <stratInfo><tvdTop> | 2.3-TVD | meter | True vertical depth to top formation/zone (RKB) |
| <stratInfo><description> | 2.3-FORMATION | text | Name of formation/zone |

### REPORT part XVII: Perforation intervals

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <perfInfo><dTimOpen> | 3.18-OPENDATE | Date | Date perforation interval is opened. |
| <perfInfo><dTimClose> | 3.18-CLOSEDATE | Date | Date perforation interval is closed. |
| <perfInfo><mdBottom> | 3.18-BMD | meter | Measured depth at bottom of the perforation interval (RKB) |
| <perfInfo><mdTop> | 3.18-TMD | meter | Measured depth at top of the perforation interval (RKB) |
| <perfInfo><tvdBottom> | BTVD | meter | True vertical depth at bottom of the perforation interval (RKB) |
| <perfInfo><tvdTop> | TTVD | meter | True vertical depth at top of the perforation interval (RKB) |
|  |  |  |  |

### 

### REPORT part XVIII – Gas readings

|  |  |  |  |
| --- | --- | --- | --- |
| WITSML tag | Ref. | Units | Description/general remarks |
|  |  |  |  |
| <gasReadingInfo><dTim> |  | date | Date and time of the gas reading |
| <gasReadingInfo><readingType> | Kind | String | Kind of gas reading, lovlige verdier er: Background/formation gas, Trip gas, Connection gas, Gas peaks |
| <gasReadingInfo><mdTop> | TMD | meter | Measure depth (RKB). If interval is given, indicate start of interval. If one depth ( i.e Gas peaks) indicate the depth. Measured depth at top of the interval (RKB) |
| <gasReadingInfo><mdBottom> | BMD | meter | Measure depth (RKB). If interval is given, indicate bottom of interval. If one depth ( i.e Gas peaks) give blank (null value) |
| <gasReadingInfo><tvdTop> | TTVD | meter | True vertical depth (RKB). If interval is given, indicate start of interval. If one depth ( i.e Gas peaks) , indicate the depth |
| <gasReadingInfo><tvdBottom> | BTVD | meter | True vertical depth (RKB). If interval is given, indicate bottom of interval. If one depth ( i.e Gas peaks) give blank (null value) |
| <gasReadingInfo><gasHigh> | PERCENTHIGH | % | Gives the highest percent value. |
| <gasReadingInfo><gasLow> | PERCENTLOW | % | The lowest percent value. If only one percent value, ( i.e. Gas peak), give blank (null value) |
| <gasReadingInfo><meth> | C1 | ppm | Methane (C1) concentration |
| <gasReadingInfo><eth> | C2 | ppm | Ethane (C2) concentration |
| <gasReadingInfo><prop> | C3 | ppm | Propane (C3) concentration |
| <gasReadingInfo><ibut> | C4 | ppm | iso-Butane (iC4) concentration |
| <gasReadingInfo><nbut> | C4 | ppm | nor-Butane (nC4) concentration |
| <gasReadingInfo><ipent> | C5 | ppm | so-Pentane (iC5) concentration |
|  |  |  |  |